

STIC SEARCH RESULTS FEEDBACK FORM

Biotech-Chem Library

Questions about the scope or the results of the search? Contact the searcher or contact:

Mary Hale, Information Branch Supervisor Remsen Bldg. 01 D86 571-272-2507

Vol	luntary Results Feedback Form
. >	I am an examiner in Workgroup: Example: 1610
· >	Relevant prior art found, search results used as follows:
	☐ 102 rejection
	☐ 103 rejection
•	Cited as being of interest.
	Helped examiner better understand the invention.
	Helped examiner better understand the state of the art in their technology.
	Types of relevant prior art found:
	☐ Foreign Patent(s)
	Non-Patent Literature (journal articles, conference proceedings, new product announcements etc.)
>	Relevant prior art not found:
	Results verified the lack of relevant prior art (helped determine patentability).
	Results were not useful in determining patentability or understanding the invention.
Co	omments:

Drop off or send completed forms to STIC-Biotech-Chem Library (Remsen Bidg. . .



OKEN WINDLE SOOD SILL

Page 1

Khare 10/312886

=> fil reg; d ide FILE 'REGISTRY' ENTERED AT 15:39:15 ON 14 JUL 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 13 JUL 2005 HIGHEST RN 854992-86-2 DICTIONARY FILE UPDATES: 13 JUL 2005 HIGHEST RN 854992-86-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN L25 329900-75-6 REGISTRY RNEntered STN: 04 Apr 2001 ED Synthetase, prostaglandin endoperoxide, 2 (9CI) (CA INDEX NAME) OTHER NAMES: Arachidonate cyclooxygenase 2 CNCOX-2 CNCyclooxygenase 2 CNCyclooxygenase II CNProstaglandin endoperoxidase synthase 2 CN Prostaglandin endoperoxide H synthase-2 CNProstaglandin endoperoxide synthase-2 CNProstaglandin endoperoxide synthetase 2 CN Prostaglandin G/H synthase-2 CNProstaglandin H synthase-2 CNΜF Unspecified CI MAN SR CA BIOSIS, CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL LC STN Files:

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

6820 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
6901 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> []

=> fil reg; d stat que 122; fil capl; d que nos 130 FILE 'REGISTRY' ENTERED AT 15:45:48 ON 14 JUL 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 13 JUL 2005 HIGHEST RN 854992-86-2 DICTIONARY FILE UPDATES: 13 JUL 2005 HIGHEST RN 854992-86-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

VAR G1=H/OH/22

Searched by Barb O'Bryen, STIC 2-2518

VAR G5=H/OH/22 VAR G7=H/OH/22/30 REP G10 = (0-1) C VPA 16-8/9 U NODE ATTRIBUTES: CONNECT IS E1 RC AT 23, DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS

STEREO ATTRIBUTES: NONE

15296 SEA FILE=REGISTRY SSS FUL L8 L10

L17

Page 1-A

Page 2-A VAR G1=1/14/53/66/27/40 VAR G2=OH/79 VAR G3=H/OH/79 NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

Subset search done looking for this structure 8 structure on the following page

NUMBER OF NODES IS 79

STEREO ATTRIBUTES: NONE L20 STR

VAR G1=H/OH/22 VAR G4=H/35/36/40/39/43 VAR G5=H/OH/22 VAR G7=H/OH/22/30 REP G10=(0-1) C VPA 16-8/9 U NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM GGCAT IS MCY LOC UNS AT 46 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 47

STEREO ATTRIBUTES: NONE

L22 1370 SEA FILE=REGISTRY SUB=L10 SSS FUL (L17 AND L20)

100.0% PROCESSED 15296 ITERATIONS 1370 ANSWERS SEARCH TIME: 00.00.01

FILE 'CAPLUS' ENTERED AT 15:45:48 ON 14 JUL 2005 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is

held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 14 Jul 2005 VOL 143 ISS 3 FILE LAST UPDATED: 13 Jul 2005 (20050713/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

L8		STR
L10	15296	SEA FILE=REGISTRY SSS FUL L8
L17		STR
L20		STR
L22		SEA FILE=REGISTRY SUB=L10 SSS FUL (L17 AND L20)
L24	19296	SEA FILE=CAPLUS ABB=ON (NF/OBI OR NUCLEAR FACTOR/OBI)(W).KAPPA ./OBI(W)B/OBI
L25	1	SEA FILE=REGISTRY ABB=ON 329900-75-6
L26		SEA FILE=CAPLUS ABB=ON L22(L) (THU OR PAC OR PKT OR DMA OR BAC)/RL
L27		SEA FILE=CAPLUS ABB=ON L25 OR (CYCLOOXYGENASE/OBI OR CYCLO OXYGENASE/OBI OR COX/OBI) (W) 2/OBI OR COX2/OBI
ъ29	41	SEA FILE=CAPLUS ABB=ON (L24 OR L27) (L) (INHIB?/OBI OR BLOCK?/OB THU-I OR ANTAG?/OBI) AND L22
L30	36	SEA FILE=CAPLUS ABB=ON L29 AND L26
		I OR ANTAG?/OBI) AND L22 SEA FILE=CAPLUS ABB=ON L29 AND L26 PAC-pharmacologic activity
=> d	ibib ed ab	s hitstr 130 1-36 2 36 CAPLUS COPYRIGHT 2005 ACS on STN R: 2005:330607 CAPLUS 142:475554 Baicalein, a component of Scutellaria radix from Huang-Lian-Jie-Du-Tang (HLJDT), leads to suppression
	ANSWER 1 0	36 CAPLUS COPYRIGHT 2005 ACS on STN PKT-pharmacokinetics
	SION NUMBER	R: 2005:330607 CAPLUS DMA-drug mechanism
	ENT NUMBER	142:475554 Baicalein, a component of Scutellaria radix from
TITLE	•	Huang-Lian-Jie-Du-Tang (HLJDT), leads to suppression
		of proliferation and induction of apoptosis in human RAA
•		myeloma cells
AUTHO	R(S):	Ma, Zi; Otsuyama, Ken-ichiro; Liu, Shangqin; Abroun, Biblogical

Saeid; Ishikawa, Hideaki; Tsuyama, Naohiro; Obata,

Masanori; Li, Fu-Jun; Zheng, Xu; Maki, Yasuko;

Miyamoto, Koji; Kawano, Michio M.

Department of Bio-Signal Analysis, Applied Medical CORPORATE SOURCE:

Engineering Science (AMES), Graduate School of Medicine, Yamaguchi University, Yamaguchi, Japan

SOURCE: Blood (2005), 105(8), 3312-3318 CODEN: BLOOAW; ISSN: 0006-4971

American Society of Hematology PUBLISHER:

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 18 Apr 2005

In the search for a more effective adjuvant therapy to treat multiple AΒ myeloma (MM), the authors investigated the effects of the traditional

Chinese herbal medicines Huang-Lian-Jie-Du-Tang (HLJDT), Gui-Zhi-Fu-Ling-Wan (GZFLW), and Huang-Lian-Tang (HLT) on the proliferation and apoptosis of myeloma cells. HLJDT inhibited the proliferation of myeloma cell lines and the survival of primary myeloma cells, especially MPC-1- immature myeloma cells, and induced apoptosis in myeloma cell lines via a mitochondria-mediated pathway by reducing mitochondrial membrane potential and activating caspase-9 and caspase-3. Further expts. confirmed that Scutellaria radix was responsible for the suppressive effect of HLJDT on myeloma cell proliferation, and the baicalein in Scutellaria radix showed strong growth inhibition and induction of apoptosis in comparison with baicalin or wogonin. Balcalein as well as baicalin suppressed the survival in vitro of MPC-1- immature myeloma cells rather than MPC-1+ myeloma cells from myeloma patients. Baicalein inhibited the phosphorylation of $IkB-\alpha$, which was followed by decreased expression of the IL-6 and XIAP genes and activation of caspase-9 and caspase-3. Therefore, HLJDT and Scutellaria radix have an antiproliferative effect on myeloma cells, especially MPC-1- immature myeloma cells, and baicalein may be responsible for the suppressive effect of Scutellaria radix by blocking IkB-α degradation

IT 491-67-8, Baicalein 632-85-9, Wogonin 21967-41-9

, Baicalin

RL: PAC (Pharmacological activity); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)

(baicalein leads to suppression of proliferation and induction of apoptosis in human myeloma cells)

RN 491-67-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,6,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 632-85-9 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-8-methoxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 21967-41-9 CAPLUS

CN β-D-Glucopyranosiduronic acid, 5,6-dihydroxy-4-oxo-2-phenyl-4H-1-benzopyran-7-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 2 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

39

ACCESSION NUMBER:

2005:123199 CAPLUS

DOCUMENT NUMBER:

142:191239

TITLE:

Botanical extract compositions comprising

phytoestrogens and methods of use

INVENTOR(S):

Chen, Sophie

PATENT ASSIGNEE(S):

USA

SOURCE:

U.S. Pat. Appl. Publ., 36 pp., Cont.-in-part of U.S.

Ser. No. 384,405, abandoned.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 3

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2005032882	AI	20050210	US 2003-647458	20030801
PRIORITY APPLN. INFO.:			US 2002-362420P	20020306
			US 2002-374417P	20020422
			US 2003-384405	32 20030306

OTHER SOURCE(S):

MARPAT 142:191239

ED Entered STN: 13 Feb 2005

AB A composition having phytoestrogenic and anti-cancer activity is described. The composition comprises wogonin, isoliquiritigenin, coumestrol, their pharmaceutically acceptable salts or esters, their selectively substituted analogs, or combinations thereof. The compns. may also include an anti-cancer agent and/or an immune stimulant. A method for treating or preventing cancer or an estrogen-related disorder includes administering a therapeutically effective amount of the compns. is described. The compns. are particularly useful in the treatment of hormone-related cancers.

IT **632-85-9P**, Wogonin

RL: NPO (Natural product occurrence); PAC (Pharmacological activity); PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)

(botanical extract compns. comprising phytoestrogens in combination with anti-cancer agents and immunostimulants for treatment of cancer and estrogen-related disorders)

RN 632-85-9 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-8-methoxy-2-phenyl- (9CI) (CA INDEX NAME)

IT 574-12-9D, Isoflavone, derivs.

RL: PAC (Pharmacological activity); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)

(botanical extract compns. comprising phytoestrogens in combination with anti-cancer agents and immunostimulants for treatment of cancer and estrogen-related disorders)

RN 574-12-9 CAPLUS

CN 4H-1-Benzopyran-4-one, 3-phenyl- (9CI) (CA INDEX NAME)

IT 329900-75-6, Cyclooxygenase 2

RL: BSU (Biological study, unclassified); BIOL (Biological study) (inhibition; botanical extract compns. comprising phytoestrogens in combination with anti-cancer agents and immunostimulants for treatment of cancer and estrogen-related disorders)

RN 329900-75-6 CAPLUS

CN Synthetase, prostaglandin endoperoxide, 2 (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L30 ANSWER 3 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2005:99157 CAPLUS

DOCUMENT NUMBER:

142:170033

TITLE:

Methods and compositions for the treatment or

prevention of human immunodeficiency virus and related

conditions using cyclooxygenase-2

selective inhibitors and antiviral agents

INVENTOR(S):

Maziasz, Timothy

PATENT ASSIGNEE(S):

USA

SOURCE:

U.S. Pat. Appl. Publ., 172 pp.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	· API	PLICATION NO.		DATE
						
US 2005026902	A1	20050203	US	2004-769485		20040130
PRIORITY APPLN. INFO.:			US	2003-443910P	P	20030131

OTHER SOURCE(S): MARPAT 142:170033

ED Entered STN: 04 Feb 2005

AB The present invention provides compns. and methods for the treatment of human immunodeficiency virus (HIV) infection as well as HIV associated diseases and related disorders. More particularly, the invention provides a combination therapy for the treatment of HIV infection as well as HIV associated diseases and related disorders comprising the administration to a subject of an anti-human immunodeficiency virus agent in combination with a cyclooxygenase-2 selective inhibitor or an isomer or a pharmaceutically acceptable salt, ester, or prodrug thereof.

IT 329900-75-6, Cyclooxygenase-2

RL: BSU (Biological study, unclassified); BIOL (Biological study) (methods and compns. for treatment or prevention of HIV infection and related conditions using cyclooxygenase-2 selective inhibitors and antiviral agents)

RN 329900-75-6 CAPLUS

CN Synthetase, prostaglandin endoperoxide, 2 (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 21967-41-9

RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(methods and compns. for treatment or prevention of HIV infection and related conditions using cyclooxygenase-2 selective inhibitors and antiviral agents)

RN 21967-41-9 CAPLUS

CN β-D-Glucopyranosiduronic acid, 5,6-dihydroxy-4-oxo-2-phenyl-4H-1benzopyran-7-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L30 ANSWER 4 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2004:1155437 CAPLUS

DOCUMENT NUMBER:

142:367049

TITLE:

Inhibitory effect of chunghuldan in prostaglandin E2 and nitric oxide biosynthesis of lipopolysaccharide-

induced RAW 264.7 cells

AUTHOR (S):

Cho, Ki-Ho; Kim, Young-Suk; Bae, Hyung-Sup; Moon, Sang-Kwan; Jung, Woo Sang; Park, Eun-Kyung; Kim,

Dong-Hyun

CORPORATE SOURCE:

College of Oriental Medicine, Kyung Hee University,

Seoul, 130-701, S. Korea

SOURCE:

Biological & Pharmaceutical Bulletin (2004), 27(11),

1810-1813

CODEN: BPBLEO; ISSN: 0918-6158

PUBLISHER:

Pharmaceutical Society of Japan

DOCUMENT TYPE:

Journal

LANGUAGE:

English

ED Entered STN: 30 Dec 2004

Chunghyuldan (Daio-Orengedokuto in Japanese) (CHD) was used as an AΒ antihyperlipidemic and antiischemic agent in Korea. To evaluate in vitro the efficacy of Chunghyuldans (CHDs) metabolized with and without human intestinal microflora against brain ischemia, the authors investigated its anti-inflammatory effect on LPS-induced RAW264.7 cells. Both metabolized CHD (MCHD) and CHD showed antioxidant activities in vitro, and inhibited nitric oxide (NO) and prostaglandin E2 (PGE2) productions in lipopolysaccharide (LPS) - induced RAW264.7 cells. These also inhibited enzyme activities and protein expressions of inducible NO synthase and cyclooxygenase-2 in LPS-induced RAW264.7 cells. MCHD-inhibitory activity against NO and PGE2 productions in LPS-induced RAW264.7 cells was more potent than those of CHD. These results suggest that CHD may show potent anti-inflammatory activity in vivo and can improve brain ischemia.

ΙT 329900-75-6, Cyclooxygenase 2

RL: BSU (Biological study, unclassified); BIOL (Biological study) (inhibitory effect of chunghuldan in prostaglandin E2 and NO biosynthesis of lipopolysaccharide-induced RAW 264.7 cells)

RN 329900-75-6 CAPLUS

Synthetase, prostaglandin endoperoxide, 2 (9CI) (CA INDEX NAME) CN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT**21967-41-9**, Baicalin

RL: PAC (Pharmacological activity); THU (Therapeutic

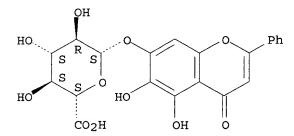
use); BIOL (Biological study); USES (Uses)

(inhibitory effect of chunghuldan in prostaglandin E2 and NO biosynthesis of lipopolysaccharide-induced RAW 264.7 cells)

RN21967-41-9 CAPLUS

 $\beta\text{-D-Glucopyranosiduronic}$ acid, 5,6-dihydroxy-4-oxo-2-phenyl-4H-1-CN benzopyran-7-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT:

THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS 16 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2005 ACS on STN L30 ANSWER 5 OF 36

ACCESSION NUMBER: 2004:1043376 CAPLUS

DOCUMENT NUMBER:

TITLE:

142:168960

On the role of polarizability in QSAR

AUTHOR(S): CORPORATE SOURCE: Verma, Rajeshwar P.; Kurup, Alka; Hansch, Corwin Department of Chemistry, Pomona College, Claremont,

CA, 91711, USA

SOURCE:

Bioorganic & Medicinal Chemistry (2004), Volume Date

2005, 13(1), 237-255

CODEN: BMECEP; ISSN: 0968-0896

PUBLISHER:

DOCUMENT TYPE:

Elsevier Ltd.

LANGUAGE:

Journal English ED Entered STN: 06 Dec 2004

The polarizability of a mol., an important phys. property, is currently attracting our attention particularly in the area of QSAR for chemical-biol. interactions. In this report, the polarizability effects on ligand-substrate interactions has been discussed in terms of NVE (number of valence electrons) using additive values for valence electrons and the formulation of a total number of 51 QSAR. The QSAR model can be illustrated by Eq. I. log 1/C = a(NVE) ± constant

IT 329900-75-6, Cyclooxygenase-2

RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (COX-2, inhibitors :: \; role of
 polarizability in QSAR)

RN 329900-75-6 CAPLUS

CN Synthetase, prostaglandin endoperoxide, 2 (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 480-40-0 520-28-5 525-82-6

RL: PAC (Pharmacological activity); BIOL (Biological study) (role of polarizability in QSAR)

RN 480-40-0 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 520-28-5 CAPLUS

CN 4H-1-Benzopyran-4-one, 5-nydroxy-7-mathaxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 525-82-6 CAPLUS

CN 4H-1-Benzopyran-4-one, 2-phenyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

54 THERE ARE 54 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 6 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

Khare 10/312886 Page 12

ACCESSION NUMBER: 2004:872698 CAPLUS

DOCUMENT NUMBER: 141:360715

Formulation of dual cyclooxygenase (COX) and TITLE:

lipoxygenase (LOX) inhibitors for mammalian skin care

INVENTOR(S): Jia, Qi; Burnett, Bruce

PATENT ASSIGNEE(S): Unigen Pharmaceuticals, Inc., USA

PCT Int. Appl., 69 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

LANGUAGE:

PAT	FENT	NO.			KIND DATE					APPL	ICAT		DATE					
WO 2004089392						A1 20041021				WO 2	 004-1	US10:	20040402					
	W: AE, AG, AL,		AL,	AM,	AT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,		
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DΖ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	ΚZ,	LC,	
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,	
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RŪ,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	
		ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	zw	
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	
		BY,	KG,	ΚZ,	MD,	RU,	TJ,	TM,	ΑT,	ΒE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	
		ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	
		SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	
		TD,	TG															
US	2004	2201	19		A1 20041104				1	US 2	004-	8173	20040402					
יידק	ADD	T.N	TNFO						1	US 2	003-	4607	36P	P 20030404				

PRIORITY APPLN. INFO.: US 2003-460736P MARPAT 141:360715 OTHER SOURCE(S):

Entered STN: 21 Oct 2004 ED The invention provides a composition of matter comprised of a mixture of two ABspecific classes of compds., free-B-ring flavonoids and flavans, for use in the prevention and treatment of diseases and conditions associated with the skin. The composition simultaneously inhibits cyclooxygenase (COX) and lipoxygenase (LOX) enzymic activity in normal, aged and damaged dermal cells and tissues. The invention further provides a method for the prevention and treatment of diseases and conditions of the skin mediated by COX and LOX. The method for preventing and treating COX-2- and 5-LOX-mediated diseases and conditions of the skin comprises topically administering to a host in need thereof a therapeutically effective amount of a composition comprising a mixture of free-B-ring flavonoids and flavans synthesized and/or isolated from a single plant or multiple plants, preferably in the Scutellaria and Acacia genus of plants and pharmaceutically and/or cosmetically acceptable carriers. Finally, the invention provides a method for the prevention and treatment of COX- and LOX-mediated diseases and conditions, including but not limited to sun burns, thermal burns, acne, topical wounds, minor inflammatory conditions caused by fungal, microbial and viral infections, vitiligo, systemic lupus erythromatosus, psoriasis, carcinoma, melanoma, other mammalian skin cancers, skin damage from exposure to UV radiation, chems., heat, wind and dry environments, wrinkles, saggy skin, lines and dark circles around the eyes, dermatitis and other allergy-related conditions of the skin. Use of the composition of the invention also affords the benefit of smooth and youthful skin with improved elasticity, reduced and delayed aging, enhanced youthful appearance and texture, and increased flexibility, firmness, smoothness and suppleness.

IT 329900-75-6, Cyclooxygenase 2

RL: BSU (Biological study, unclassified); BIOL (Biological study) (dual cyclooxygenase and lipoxygenase inhibitors for

mammalian skin care)

RN 329900-75-6 CAPLUS

CN Synthetase, prostaglandin endoperoxide, 2 (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

1T 480-11-5, Oroxylin A 480-40-0, Chrysin 491-67-8, Baicalein 632-85-9, Wogonin 4443-09-8, Norwogonin 21967-41-9, Baicalin 29550-13-8, 5,6-Dihydroxy-7-methoxyflavone 35775-49-6, Chrysin-7-glucuronide 36948-76-2 38183-03-8, 7,8-Dihydroxyflavone 51059-44-0, Wogonin-7-glucuronide 123549-16-6

RL: COS (Cosmetic use); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(dual cyclooxygenase and lipoxygenase inhibitors for mammalian skin care)

RN 480-11-5 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-6-methoxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 480-40-0 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 491-67-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,6,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 632-85-9 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-8-methoxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 4443-09-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7,8-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 21967-41-9 CAPLUS

CN β-D-Glucopyranosiduronic acid, 5,6-dihydroxy-4-oxo-2-phenyl-4H-1-benzopyran-7-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 29550-13-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,6-dihydroxy-7-methoxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 35775-49-6 CAPLUS

CN β -D-Glucopyranosiduronic acid, 5-hydroxy-4-oxo-2-phenyl-4H-1-benzopyran-7-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 36948-76-2 CAPLUS

CN β -D-Glucopyranosiduronic acid, 5-hydroxy-6-methoxy-4-oxo-2-phenyl-4H-1-benzopyran-7-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 38183-03-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 7,8-dihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 51059-44-0 CAPLUS

CN β -D-Glucopyranosiduronic acid, 5-hydroxy-8-methoxy-4-oxo-2-phenyl-4H-1-benzopyran-7-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 123549-16-6 CAPLUS

CN β -D-Glucopyranosiduronic acid, 5,8-dimethoxy-4-oxo-2-phenyl-4H-1-

benzopyran-7-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 7 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

3

ACCESSION NUMBER: 2004:734738 CAPLUS

DOCUMENT NUMBER: 141:307052

TITLE: Flavonoids inhibit tumor necrosis

 $factor\hbox{-}\alpha\hbox{-}induced\ up\hbox{-}regulation\ of\ intercellular$

adhesion molecule-1 (ICAM-1) in respiratory epithelial

cells through activator protein-1 and nuclear

factor-.kappa.B:

Structure-activity relationships

Chen, Ching-Chow; Chow, Man-Ping; Huang, Wei-Chien; AUTHOR (S):

Lin, Yi-Chu; Chang, Ya-Jen

Department of Pharmacology, College of Medicine, CORPORATE SOURCE:

> National Taiwan University, Taipei, Taiwan Molecular Pharmacology (2004), 66(3), 683-693

SOURCE: CODEN: MOPMA3; ISSN: 0026-895X

American Society for Pharmacology and Experimental PUBLISHER:

Therapeutics

DOCUMENT TYPE: Journal LANGUAGE: English

ED Entered STN: 09 Sep 2004 Intercellular adhesion mol.-1 (ICAM-1) has been implicated in the AB processes of inflammation and carcinogenesis. Flavonoids, which are polyphenolic compds. with a wide distribution throughout the plant kingdom, have potent anti-inflammatory properties. The authors investigated the effects of flavonols (kaempferol, quercetin, and myricetin) and flavones (flavone, chrysin, apigenin, luteolin, baicalein, and baicalin) on the tumor necrosis factor- α (TNF- α) stimulated ICAM-1 expression. Among those flavonoids tested, kaempferol, chrysin, apigenin, and luteolin are active inhibitors of ICAM-1 expression. Addnl. expts. suggested that apigenin and luteolin were actively inhibiting the IkB kinase (IKK) activity, the IκBα degradation, the nuclear factor-κB (NF-κB) DNA-protein binding, and the NF-kB luciferase activity. $TNF-\alpha$ -induced ICAM-1 promoter activity was attenuated using an activator protein-1 (AP-1) site deletion mutant, indicating the involvement of AP-1 in ICAM-1 expression. AP-1-specific DNA-protein binding activity was increased by TNF- α , and the supershift assay identified the components of c-fos and c-jun. Extracellular signal-regulated kinase (ERK) and p38 were involved in the c-fos mRNA expression, and c-Jun N-terminal kinase (JNK) was involved in the c-jun mRNA expression. All three mitogen-activated protein kinase (MAPK) activities were inhibited by apigenin and luteolin. In comparison,

kaempferol and chrysin only inhibited the JNK activity. The inhibitory effects of apigenin and luteolin on ICAM-1 expression are mediated by the sequential attenuation of the three MAPKs activities, the c-fos and c-jun mRNA expressions, and the AP-1 transcriptional activity. IKK/NF- κ B pathway is also involved; however, kaempferol- and chrysin-mediated inhibitions are primarily executed through the attenuation of JNK activity, c-jun mRNA expression, and AP-1 activity. The structure-activity relationships are also explored, and the important role of -OH group at positions 5 and 7 of A ring and at position 4 of B ring is noted. Finally, our results suggested that AP-1 seems to play a more significant role than NF- κ B in the flavonoid-induced ICAM-1 inhibition.

IT 480-40-0, Chrysin 491-67-8, Baicalein 525-82-6, Flavone 21967-41-9, Baicalin

RL: PAC (Pharmacological activity); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)

(flavonoids inhibit tumor necrosis factor-α-induced

up-regulation of intercellular adhesion mol.-1 (ICAM-1) in respiratory epithelial cells through activator protein-1 and nuclear

factor-k B)

RN 480-40-0 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 491-67-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,6,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

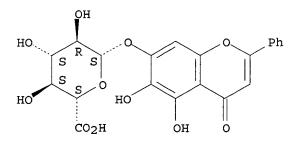
RN 525-82-6 CAPLUS

CN 4H-1-Benzopyran-4-one, 2-phenyl- (9CI) (CA INDEX NAME)

RN 21967-41-9 CAPLUS

CN β-D-Glucopyranosiduronic acid, 5,6-dihydroxy-4-oxo-2-phenyl-4H-1-benzopyran-7-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 8 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:470431 CAPLUS

DOCUMENT NUMBER: 141:22660

TITLE: Propolis compositions containing quercetin, p-coumaric

acid, and artepillin C

INVENTOR(S): Yoshizumi, Kazuma; Nishioka, Nobuo

PATENT ASSIGNEE(S): Fancl Corporation, Japan; Morikawa Kenkodo K. K.

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004159563	A2	20040610	JP 2002-329284	20021113
PRIORITY APPLN. INFO.:			JP 2002-329284	20021113

ED Entered STN: 10 Jun 2004

AB Propolis compns., which show enhanced bioactivity, contain quercetin, p-coumaric acid, artepillin C (I), and further chrysin (II), galangin (III), or phenethyl caffeate (IV). Chinese propolis contained no I and Brazilian propolis contained I but neither II, III, nor IV. Both propolis products are mixed to complement their bioactivities. COX-2 inhibitory activity of a propolis composition varied according to mixing ratio of both products.

IT 329900-75-6, Cyclooxygenase 2

RL: BSU (Biological study, unclassified); BIOL (Biological study) (inhibitor; propolis compns. containing quercetin, p-coumaric acid, artepillin C, and further chrysin, galangin, or phenethyl caffeate)

RN 329900-75-6 CAPLUS

CN Synthetase, prostaglandin endoperoxide, 2 (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 480-40-0, Chrysin 548-83-4, Galangin

RL: BSU (Biological study, unclassified); FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(propolis compns. containing quercetin, p-coumaric acid, artepillin C, and further chrysin, galangin, or phenethyl caffeate)

RN 480-40-0 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

548-83-4 CAPLUS RN

4H-1-Benzopyran-4-one, 3,5,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME) CN

L30 ANSWER 9 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

2004:467984 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 141:22217

Therapy of non-malignant diseases or disorders with TITLE:

anti-ErbB2 antibodies

INVENTOR(S): Sliwkowski, Mark X.; Brunetta, Paul G.

Genentech, Inc., USA PATENT ASSIGNEE(S): SOURCE: PCT Int. Appl., 74 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent English LANGHAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PAT	CENT :	NO.			KIND DATE					APPL	ICAT:	ION I		DATE				
							-												
	WO	2004	0485	25		A2		2004	0610	1	WO 2	003-1	US37	367		20	0031	121	
		W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	ΒZ,	CA,	CH,	
			CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
			GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KΕ,	KG,	KΡ,	KR,	KΖ,	LC,	
			LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NΙ,	NO,	•
			NZ,	OM,	PG,	PH,	ΡL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	ΤJ,	
			TM,	TN,	TR,	TT,	TZ,	UA,	UG,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW			
		RW:	BW,	GH,	GM,	KΕ,	LS,	MW,	MZ,	SD,	SL,	SZ,	·TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	
			BY,	KG,	KZ,	MD,	RU,	ТJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	
			ES,	FI,	FR,	GB,	GR,	ΗŲ,	ΙE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	
			TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG
	US	2004	2586	85		A1		2004	1223		US 2	003-	7193	10		20	0031	121	
PRIC	RITY	APP	LN.	INFO	.:			•		•	US 20	002-	4280	27P	1	P 20	0021	121	
ED	Ent	ered	STN	. 1	0 .Tiii	n 201	n 4												

Entered STN: 10 Jun 2004 Eυ

The authors disclose the preparation and biol. activity of murine and humanized AΒ antibodies to HER2. In one example, an anti-HER2 antibody is shown to inhibit heregulin-induced activation of Akt kinase and erbB2 association with erbB3. The present application describes treatment of non-malignant indications, such as psoriasis, endometriosis, scleroderma, vascular diseases or disorders, respiratory disease, colon polyps or fibroadenoma, with anti-ErbB2 antibodies (e.g. rhuMAb 2C4).

574-12-9, Isoflavone

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(adjunct therapy with antibodies to ErbB2)

RN 574-12-9 CAPLUS

CN 4H-1-Benzopyran-4-one, 3-phenyl- (9CI) (CA INDEX NAME)

IT 329900-75-6, COX-2

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (inhibitors; adjunct therapy with antibodies to ErbB2)

RN 329900-75-6 CAPLUS

CN Synthetase, prostaglandin endoperoxide, 2 (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

L30 ANSWER 10 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:448190 CAPLUS

DOCUMENT NUMBER: 140:417568

TITLE: Inhibition of contact dermatitis in animal models and

suppression of proinflammatory gene expression by

topically applied flavonoid, wogonin

AUTHOR(S): Lim, Hyun; Park, Haeil; Kim, Hyun Pyo

CORPORATE SOURCE: College of Pharmacy, Kangwon National University,

Chunchon, 200-701, S. Korea

SOURCE: Archives of Pharmacal Research (2004), 27(4), 442-448

CODEN: APHRDQ; ISSN: 0253-6269

PUBLISHER: Pharmaceutical Society of Korea

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 03 Jun 2004

Wogonin (5,7-dihydroxy-8-methoxyflavone) is a down-regulator of AΒ cyclooxygenase-2 and inducible nitric oxide synthase expression, contributing to anti-inflammatory activity in vivo. For further characterization of modulatory activity on proinflammatory gene expression in vivo, the effect of wogonin was examined in this experiment using animal models of skin inflammation. By topical application, wogonin inhibited an edematic response as well as proinflammatory gene expression against contact dermatitis in mice. Wogonin inhibited ear edema (19.4-22.6%) at doses of 50-200 μg/ear and down-regulated interleukin-1β induction (23.1%) at 200 µg/ear in phenol-induced simple irritation. Wogonin (2+50-2+200 μg/ear) also inhibited edematic response (51.2-43.9%) and down-regulated proinflammatory gene expression of cyclooxygenase-2, interleukin-1β, interferon-γ, intercellular adhesion mol.-1 and inducible nitric oxide synthase with some different sensitivity against picryl chloride-induced delayed hypersensitivity reaction. All these results clearly demonstrate that wogonin is a down-regulator of proinflammatory gene expression in animal models of skin inflammation. Therefore, wogonin may have potential for a new anti-inflammatory agent against skin inflammation.

IT 329900-75-6, Cyclooxygenase-2

RL: BSU (Biological study, unclassified); BIOL (Biological study)
(inhibition of contact dermatitis in animal models and
suppression of proinflammatory gene expression by topically applied
flavonoid, wogonin)

329900-75-6 CAPLUS RN

Synthetase, prostaglandin endoperoxide, 2 (9CI) (CA INDEX NAME) CN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

632-85-9, Wogonin

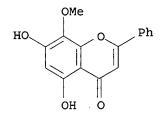
RL: NPO (Natural product occurrence); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study);

OCCU (Occurrence); USES (Uses)

(inhibition of contact dermatitis in animal models and suppression of proinflammatory gene expression by topically applied flavonoid, woqonin)

632-85-9 CAPLUS RN

4H-1-Benzopyran-4-one, 5,7-dihydroxy-8-methoxy-2-phenyl- (9CI) CN NAME)



REFERENCE COUNT:

25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 11 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2004:294563 CAPLUS

DOCUMENT NUMBER:

140:350059

TITLE: AUTHOR (S):

Synthesis and biological activities of 8-arylflavones Dao, Tran Thanh; Kim, Soo Bae; Sin, Kwan-Seog; Kim,

Sanghee; Kim, Hyun Pyo; Park, Haeil

CORPORATE SOURCE:

College of Pharmacy, Kangwon National University, Chuncheon, 200-701, S. Korea

SOURCE:

Archives of Pharmacal Research (2004), 27(3), 278-282

CODEN: APHRDQ; ISSN: 0253-6269 Pharmaceutical Society of Korea

PUBLISHER:

Journal

DOCUMENT TYPE: LANGUAGE:

English

Entered STN: 12 Apr 2004

A number of 8-arylflavones have been synthesized as congeners of wogonin and evaluated for their inhibitory activities of PGE2 production 8-Arylflavones were obtained from com. available chrysin via two different synthetic pathways. Most 8-arylflavones exhibited much reduced inhibitory activities against COX-2 catalyzed PGE2 production compared to that of wogonin. Functional group replacement at the 8-position of wogonin from methoxy to aryl group caused loss of inhibitory activity. Our present results imply that the functional group at the 8-position of flavones seems to play very important roles for bioactivity.

IT329900-75-6, Cyclooxygenase 2

RL: BSU (Biological study, unclassified); BIOL (Biological study) (synthesis and PGE2 production-inhibiting activities of 8-arylflavones)

RN329900-75-6 CAPLUS

CNSynthetase, prostaglandin endoperoxide, 2 (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 480-40-0, Chrysin

RL: PAC (Pharmacological activity); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or

reagent); USES (Uses)

(synthesis and PGE2 production-inhibiting activities of 8-arylflavones)

RN 480-40-0 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

IT 632-85-9, Wogonin

RL: PAC (Pharmacological activity); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)

(synthesis and PGE2 production-inhibiting activities of 8-arylflavones)

RN 632-85-9 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-8-methoxy-2-phenyl- (9CI) (CA INDEX NAME)

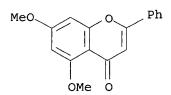
IT 21392-57-4P, 5,7-Dimethoxyflavone

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthesis and PGE2 production-inhibiting activities of 8-arylflavones)

RN 21392-57-4 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dimethoxy-2-phenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT:

14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 12 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2004:153573 CAPLUS

DOCUMENT NUMBER:

140:357081

TITLE:

Synthesis and inhibitory activity against

COX-2 catalyzed prostaglandin

production of chrysin derivatives

AUTHOR (S):

Dao, Tran Thanh; Chi, Yeon Sook; Kim, Jeongsoo; Kim,

Hyun Pyo; Kim, Sanghee; Park, Haeil

College of Pharmacy, Kangwon National University, CORPORATE SOURCE:

Chunchon, 200-701, S. Korea

Bioorganic & Medicinal Chemistry Letters (2004), SOURCE:

14(5), 1165-1167

CODEN: BMCLE8; ISSN: 0960-894X

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal LANGUAGE: English

Entered STN: 26 Feb 2004

A series of chrysin derivs. were prepared and evaluated for their inhibitory activities of cyclooxygenase-2 catalyzed prostaglandin production Chrysin derivs. were prepared from 2-hydroxyacetophenone, 2,4-dihydroxyacetophenone and 2,6-dihydroxyacetophenone in 2 to 4 steps, resp. Methoxylated chrysin derivs. were converted to the corresponding hydroxylated chrysin derivs. by the reaction with BBr3 in good yields. The inhibitory activity of the chrysin derivs. against prostaglandin production from lipopolysaccharidetreated RAW 264.7 cells was measured. Chrysin derivs. with 3',4'-dichloro substituents exhibited good inhibitory activity of prostaglandin production IT

329900-75-6, COX-2 RL: BSU (Biological study, unclassified); BIOL (Biological study) (COX-2; preparation of chrysin derivs. from acetophenones and their inhibitory activity against cox-2 catalyzed prostaglandin production)

RN329900-75-6 CAPLUS

Synthetase, prostaglandin endoperoxide, 2 (9CI) (CA INDEX NAME) CN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

525-82-6P 22395-22-8P 42079-78-7P

PL. PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)

(preparation of chrysin derivs. from acetophenones and their inhibitory activity against COX-2 catalyzed prostaglandin production)

525-82-6 CAPLUS RN

4H-1-Benzopyran-4-one, 2-phenyl- (9CI) (CA INDEX NAME) CN

22395-22-8 CAPLUS RN

4H-1-Benzopyran-4-one, 7-methoxy-2-phenyl- (9CI) (CA INDEX NAME) CN

RN 42079-78-7 CAPLUS

CN 4H-1-Benzopyran-4-one, 5-methoxy-2-phenyl- (9CI) (CA INDEX NAME)

IT 480-40-0DP, Chrysin, derivs. 491-78-1P

6665-86-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation);

BIOL (Biological study); PREP (Preparation)

(preparation of chrysin derivs. from acetophenones and their

inhibitory activity against COX-2 catalyzed
prostaglandin production)

RN 480-40-0 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 491-78-1 CAPLUS

CN 4H-1-Benzopyran-4-one, 5-hydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 6665-86-7 CAPLUS

CN 4H-1-Benzopyran-4-one, 7-hydroxy-2-phenyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 13 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2004:111557 CAPLUS

DOCUMENT NUMBER:

140:297340

TITLE:

Inhibition of inducible nitric oxide synthase expression by baicalein in endotoxin/cytokine-

stimulated microglia

AUTHOR (S):

Chen, Chun-Jung; Raung, Shue-Ling; Liao, Su-Lan; Chen,

Shih-Yun

CORPORATE SOURCE:

Department of Education and Research, Taichung Veterans General Hospital, Taichung, 407, Taiwan Biochemical Pharmacology (2004), 67(5), 957-965

SOURCE:

CODEN: BCPCA6; ISSN: 0006-2952

PUBLISHER:

Elsevier Science B.V.

DOCUMENT TYPE:

Journal English

LANGUAGE:

ED Entered STN: 11 Feb 2004

Excessive production of nitric oxide (NO) in the central nervous system (CNS) AB mediated by activation of microglia has been implicated in neurotoxicity after stresses such as ischemia. Baicalein, a polyphenolic flavonoid antioxidant, is known to have anti-inflammatory, anticarcinogenic, and neuroprotective effects. In the present study, we report the inhibitory effect of baicalein on endotoxin/cytokine-induced NO production and inducible nitric oxide synthase (iNOS) gene expression in microglia. Baicalein abolished the endotoxin/cytokine-induced expression of iNOS protein, iNOS mRNA, and iNOS promoter activity in a parallel concentration-dependent manner. The suppression of iNOS expression was not mediated through the down-regulation of tumor necrosis factor-alpha (TNF- α) by baicalein because $TNF-\alpha$ failed to enhance endotoxin/cytokine-induced NO production in microglia. From the electrophoretic mobility shift assay (EMSA), we found that baicalein exerted a distinct inhibitory effect on the DNA binding activity of transcription factors, and this was significantly greater in nuclear factor IL-6 (NF-IL6) than in nuclear factor kappa B $(NF-\kappa B)$ and activated protein 1 (AP-1). Although extracellular signal-regulated kinase (ERK) is critical to iNOS expression, endotoxin/cytokine-stimulated phosphorylation of ERK1/2 was not significantly inhibited by baicalein. These results indicate that NF-IL6 inactivation could be the major determinant for the suppression of NO production by baicalein in microglia. Furthermore, it suggests that the inhibitory effect of baicalein on microglia activation and neurotoxic factor production is responsible for its neuroprotective action.

IT **491-67-8**, Baicalein

RL: PAC (Pharmacological activity); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)

(inhibition of iNOS expression by baicalein in endotoxin/cytokine-stimulated microglia)

RN 491-67-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,6,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 14 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:892548 CAPLUS

DOCUMENT NUMBER: 139:386470

TITLE: Formulation of a mixture of Free-B-ring flavonoids and

flavans for treatment of diseases mediated by the

COX-2 and 5-LO pathways

INVENTOR(S): Jia, Qi

PATENT ASSIGNEE(S): Unigen Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 93 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 7

PATENT INFORMATION:

PA'	rent :				KIND DATE				i	APPL	ICAT		DATE				
WO	2003				A2	_	2003	1113	1	WO 2	 003-1	20030430					
WO	WO 2003092599				A3	A3 20040311											
	W:	ΑE,	AG,	AL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,
		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
		GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,
		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,
		PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	TJ,	TM,	TN,	TR,	TT,	TZ,
		UA,	UG,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW							
	RW:	GH,	GM,	KE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,
		KG,	ΚZ,	MD,	RU,	TJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,
		FI,	FR,	GB,	GR,	HU,	ΙE,	IT,	LU,	MC,	NL,	PT,	RO,	SE,	SI,	SK,	TR,
		BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	SN,	TD,	TG
CA	2484	192			AA		2003	1113	(CA 2	003-	2484	192		20	00304	430
EP	1503	778			A2		2005	0209	1	EP 2	003-	7265	48		20	00304	130
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	ΑL,	TR,	BG,	CZ,	EE,	HU,	SK	
PRIORITY	Y APP	LN.	INFO	. :					1	JS 2	002-3	3771	68P	P 20020430			
									1	WO 2	003-1	JS134	463	7	v 20	00304	130

OTHER SOURCE(S): MARPAT 139:386470

ED Entered STN: 14 Nov 2003

AB The present invention provides a novel composition of matter comprised of a mixture of two specific classes of compds., Free-B-ring flavonoids and flavans for the prevention and treatment of diseases and conditions mediated by the cyclooxygenase-2 (COX-2) and 5-lipoxygenase (5-LO) pathways, including but not limited to the relief joint discomfort and pain associated with conditions such as osteoarthritis, rheumatoid arthritis, and other injuries that result from overuse. The present invention further provides a novel method for simultaneously inhibiting the cyclooxygenase-2 (COX-2) and 5-lipoxygenase (5-LO) enzymes, and reducing COX-2 mRNA production Finally, the present invention includes a method for weight loss and blood glucose control. The methods of this invention are comprised of administering to a host in need thereof an effective amount of the composition of this invention together with a pharmaceutically acceptable carrier. Examples are given for preparation of organic and aqueous exts. from

Acacia

and Scutellaria, inhibition of COX-2 peroxidase activity by various plant species, and isolation of flavonoids for Scutellaria exts.

IT 329900-75-6, COX-2

RL: BSU (Biological study, unclassified); BIOL (Biological study) (COX-2, inhibitors; formulation of a

mixture of free-B-ring flavonoids and flavans for treatment of diseases mediated by the COX-2 and 5-LO pathways)

RN 329900-75-6 CAPLUS

CN Synthetase, prostaglandin endoperoxide, 2 (9CI) (CA INDEX NAME)

RN 480-40-0 CAPLUS CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 491-67-8 CAPLUS CN 4H-1-Benzopyran-4-one, 5,6,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 632-85-9 CAPLUS CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-8-methoxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 4443-09-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7,8-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 21967-41-9 CAPLUS

CN β -D-Glucopyranosiduronic acid, 5,6-dihydroxy-4-oxo-2-phenyl-4H-1-benzopyran-7-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 35775-49-6 CAPLUS

CN β -D-Glucopyranosiduronic acid, 5-hydroxy-4-oxo-2-phenyl-4H-1-benzopyran-7-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 36948-76-2 CAPLUS

CN β-D-Glucopyranosiduronic acid, 5-hydroxy-6-methoxy-4-oxo-2-phenyl-4H-1-benzopyran-7-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.

51059-44-0 CAPLUS RN

β-D-Glucopyranosiduronic acid, 5-hydroxy-8-methoxy-4-oxo-2-phenyl-4H-CN 1-benzopyran-7-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.

 $\mathbb{R}\mathbb{N}$ 123549-16-6 CAPLUS

CNβ-D-Glucopyranosiduronic acid, 5,8-dimethoxy-4-oxo-2-phenyl-4H-1benzopyran-7-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.

CAPLUS COPYRIGHT 2005 ACS on STN L30 ANSWER 15 OF 36

ACCESSION NUMBER:

2003:830828 CAPLUS

DOCUMENT NUMBER:

140:156920

TITLE:

Biological activities of flavonoids isolated from Chinese herb Huang Qui: Inhibition of NO and PGE2

production by flavonoids

AUTHOR(S):

CORPORATE SOURCE:

Chen, Yen-Chou; Shen, Shing-Chuan; Hsu, Foun-Lin Graduate Institute of Pharmacognosy Science, School of Pharmacy, Taipei Medical University, Taipei, Taiwan

SOURCE:

ACS Symposium Series (2003), 859 (Oriental Foods and

Herbs), 113-120

CODEN: ACSMC8; ISSN: 0097-6156

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal English

LANGUAGE:

Entered STN: 23 Oct 2003 ED

Huang Qui is one of the popular Chinese herbs, and was used in treatment AB of several human diseases such as inflammation, allergy and artherosclosis for thousands of years. However the active components of Huang Qui are still undefined. The authors' recent studies demonstrated that flavonoids in Huang Qui including wogonin, quercetin, and oroxylin A showed the significant inhibition on lipopolysaccharide (LPS)-induced nitric oxide (NO) and prostaglandin E2 (PGE2) production, accompanied by inhibiting inducible nitric oxide synthase (iNOS) and cyclooxygenase 2 (COX-2) gene expression. The inhibitory mechanism of these compds. on LPS-induced responses was through inhibiting NF-kB activation. In vivo study showed that wogonin and quercetin were able to suppress LPS-induced NO production in the serum of Balb/c mice. In addition to NO inhibition, wogonin showed the apoptotic effect on human promyeloleukemia cells HL-60 and hepatocellular carcinoma cells SK-HEP-1 cells through activation of caspase 3-dependent cascade, and oroxylin A exhibited the significant relaxative effect in porcine cerebral arteries pre-constricted by U-46619 through activation of potassium channels. Results of the authors' studies demonstrate that wogonin, quercetin, and oroxylin A are active components of Huang Qui and deserve several beneficial biol. activities to be explored further.

480-11-5, Oroxylin A 632-85-9, Wogonin TТ

RL: PAC (Pharmacological activity); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)

(inhibition of NO and PGE2 production by flavonoids isolated from Chinese herb Huang Qui)

RN 480-11-5 CAPLUS

4H-1-Benzopyran-4-one, 5,7-dihydroxy-6-methoxy-2-phenyl- (9CI) (CA INDEX CNNAME)

RN632-85-9 CAPLUS

4H-1-Benzopyran-4-one, 5,7-dihydroxy-8-methoxy-2-phenyl- (9CI) (CA INDEX CNNAME)

329900-75-6, Cyclooxygenase 2 IT

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(inhibition; biol. activity of flavonoids isolated from Chinese herb Huang Qui)

RN 329900-75-6 CAPLUS

CN Synthetase, prostaglandin endoperoxide, 2 (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 16 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:826157 CAPLUS

DOCUMENT NUMBER: 140:23032

TITLE: Flavonoid wogonin from medicinal herb is

neuroprotective by inhibiting inflammatory activation

of microglia

AUTHOR(S): Lee, Heasuk; Kim, Young Ok; Kim, Hocheol; Kim, Sun

Yeou; Noh, Hae Sook; Kang, Sang Soo; Cho, Gyeong Jae;

Choi, Wan Sung; Suk, Kyoungho

CORPORATE SOURCE: Dep. of Anat. and Neurobiol., Res. Inst. of Nat. Sci.,

and Inst. of Health Sci., Gyeongsang Natl. Univ. Coll.

of Med., Jinju, 660-751, S. Korea

SOURCE: FASEB Journal (2003), 17(13), 1943-1944,

10.1096/fj.03-0057fje

CODEN: FAJOEC; ISSN: 0892-6638.

PUBLISHER: Federation of American Societies for Experimental

Biology

DOCUMENT TYPE: Journal LANGUAGE: English

ED Entered STN: 22 Oct 2003

Wogonin (5,7-dihydroxy-8-methoxyflavone), a flavonoid originated from the AB root of a medicinal herb Scutellaria baicalensis Georgi, has been previously shown to have anti-inflammatory activities in various cell types including macrophages. In this work, we have found that wogonin is a potent neuroprotector from natural source. Wogonin inhibited inflammatory activation of cultured brain microglia by diminishing lipopolysaccharide-induced tumor necrosis factor- α (TNF- α), interleukin-1\u00ed, and nitric oxide (NO) production Wogonin inhibited NO production by suppressing inducible NO synthase (iNOS) induction and NF-κB activation in microglia. Inhibition of inflammatory activation of microglia by wogonin led to the reduction in microglial cytotoxicity toward cocultured PC12 cells, supporting a neuroprotective role for wogonin in vitro. The neuroprotective effect of wogonin was further demonstrated in vivo using two exptl. brain injury models; transient global ischemia by four-vessel occlusion and excitotoxic injury by systemic kainate injection. In both animal models, wogonin conferred neuroprotection by attenuating the death of hippocampal neurons, and the neuroprotective effect was associated with inhibition of the inflammatory activation of microglia. Hippocampal induction of inflammatory mediators such as iNOS and $TNF-\alpha$ was reduced by wogonin in the global ischemia model, and microglial activation was markedly down-regulated by wogonin in the kainate injection model as judged by microglia-specific isolectin B4 staining. Taken together, our results indicate that wogonin exerts its neuroprotective effect by inhibiting microglial activation, which is a critical component of pathogenic inflammatory responses in neurodegenerative diseases. The current study emphasizes the importance of medicinal herbs and their constituents as an invaluable source for the development of novel neuroprotective drugs.

IT 632-85-9, Wogonin

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(flavonoid wogonin from medicinal herb is neuroprotective by inhibiting inflammatory activation of microglia)

RN 632-85-9 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-8-methoxy-2-phenyl- (9CI) (CA INDEX NAME)

AUTHOR (S):

REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 17 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:816980 CAPLUS

DOCUMENT NUMBER: 140:174727

TITLE: Involvement of nuclear factor.

kappa.b in the inhibition

of interleukin-12 production from mouse macrophages by

baicalein, a flavonoid in Scutellaria baicalensis Kang, Bok Yun; Chung, Su Wol; Kim, Seung Hyun; Cho,

Daeho; Kim, Tae Sung

CORPORATE SOURCE: College of Pharmacy and Research Institute of Drug

Development, Chonnam National University, Kwangju, S.

Korea

SOURCE: Planta Medica (2003), 69(8), 687-691

CODEN: PLMEAA; ISSN: 0032-0943

PUBLISHER: Georg Thieme Verlag

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 17 Oct 2003

Entered STN: 17 Oct 2003 Pharmacol. inhibition of interleukin-12 (IL-12) production may be a AB therapeutic strategy for preventing development and progression of disease in exptl. models of autoimmunity. In this study we investigated the effects of baicalein, a flavonoid present in the root of Scutellaria baicalensis, on the production of IL-12 from mouse macrophages stimulated with lipopolysaccharide (LPS). Baicalein potently inhibited the LPS-induced IL-12 production from both primary macrophages and RAW264.7 monocytic cell line in a dose-dependent manner (the IC50 values were 43.7 and 17.4 μM , resp.). The effect of baicalein on IL-12 gene promoter activation was analyzed by transfecting RAW264.7 cells with IL-12 gene promoter/luciferase constructs. The repressive effect mapped to a region in the IL-12 gene promoter containing a binding site for NF-κB. Furthermore, activation of macrophages by LPS resulted in markedly enhanced binding activity to the NF-kB site, which significantly decreased upon addition of baicalein, indicating that baicalein inhibited IL-12 production in LPS-activated macrophages via inhibition of NF-κB binding activity.

IT **491-67-8**, Baicalein

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(NF-κ B role in baicalein-induced

inhibition of IL-12 in LPS-activated macrophages)

RN 491-67-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,6,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

HO OH O

REFERENCE COUNT:

19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 18 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2003:696316 CAPLUS

DOCUMENT NUMBER:

139:191432

TITLE:

Identification of free-B-ring flavonoids as potent

cyclooxygenase 2 (COX-

2) inhibitors

INVENTOR(S):

Jia, Qi; Nichols, Timothy C.; Rhoden, Eric E.; Waite,

Scott

PATENT ASSIGNEE(S):

Unigen Pharmaceuticals, Inc., USA

SOURCE:

U.S. Pat. Appl. Publ., 23 pp. CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATE	NT NO.			KIND DATE						ICAT:		DATE						
								1	US 2002-91362 WO 2003-US6098									
	CO GM LS	, AG, , CR, , HR, , LT,	CU, HU, LU,	CZ, ID, LV,	DE, IL, MA,	DK, IN, MD,	DM, IS, MG,	DZ, JP, MK,	EC, KE, MN,	EE, KG, MW,	ES, KP, MX,	FI, KR, MZ,	GB, KZ, NO,	GD, LC, NZ,	GE, LK, OM,	GH, LR, PH,		
	RW: GH KG FI	, UG, , GM, , KZ, , FR, , CF,	KE, MD, GB,	LS, RU, GR, CI,	MW, TJ, HU, CM,	MZ, TM, IE, GA,	SD, AT, IT, GN,	SL, BE, LU, GQ,	SZ, BG, MC, GW,	TZ, CH, NL, ML,	CY, PT, MR,	CZ, SE, NE,	DE, SI, SN,	DK, SK, TD,	EE, TR,	ES,		
	.487470 R: AT	, BE,	CH,			2004: ES,								_	0030: MC,			
US 2	005519 004092 005096	458 281	T2 A1			0630 0513	. 1	JP 2 US 2 US 2 US 2 US 2 WO 2	003-! 003-4	5725 4692 9325 9136 1044 US60	81 75 71 2 77 98)) (20 20 A 20 A 20 W 20	00302 00308 00409 00203 00203	827 901 301 322 228			

OTHER SOURCE(S): MARPAT 139:191432

ED Entered STN: 05 Sep 2003

AB The invention provides a method for inhibiting COX-2. The method

US 2003-499742P

P 20030902

comprises administering a composition containing a free-B-ring flavonoid or a composition containing a mixture of free-B-ring flavonoids to a host in need thereof.

The invention also includes methods for the prevention and treatment of COX-2-mediated diseases and conditions. The method for preventing and treating COX-2-mediated diseases and conditions comprises administering to a host in need thereof an effective amount of a composition containing a free-B-ring

flavonoid or a composition containing a mixture of free-B-ring flavonoids and a pharmaceutically acceptable carrier.

IT 329900-75-6, Cyclooxygenase 2

RL: BSU (Biological study, unclassified); BIOL (Biological study) (free-B-ring flavonoids as cyclooxygenase 2 inhibitors)

329900-75-6 CAPLUS RN

Synthetase, prostaglandin endoperoxide, 2 (9CI) (CA INDEX NAME) CN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

491-67-8, Baicalein 21967-41-9, Baicalin IT RL: NPO (Natural product occurrence); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses) (free-B-ring flavonoids as cyclooxygenase 2 inhibitors)

RN 491-67-8 CAPLUS

4H-1-Benzopyran-4-one, 5,6,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME) CN

21967-41-9 CAPLUS RN

CNβ-D-Glucopyranosiduronic acid, 5,6-dihydroxy-4-oxo-2-phenyl-4H-1benzopyran-7-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 632-85-9, Wogonin 29550-13-8, 5,6-Dihydroxy-7methoxyflavone 38183-03-8, 7,8-Dihydroxyflavone RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (free-B-ring flavonoids as cyclooxygenase 2 inhibitors) 632-85-9 CAPLUS RN

4H-1-Benzopyran-4-one, 5,7-dihydroxy-8-methoxy-2-phenyl- (9CI) CNNAME)

RN29550-13-8 CAPLUS

4H-1-Benzopyran-4-one, 5,6-dihydroxy-7-methoxy-2-phenyl- (9CI) (CA INDEX CNNAME)

38183-03-8 CAPLUS RN

4H-1-Benzopyran-4-one, 7,8-dihydroxy-2-phenyl- (9CI) (CA INDEX NAME) CN

L30 ANSWER 19 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: DOCUMENT NUMBER:

2003:690440 CAPLUS

TITLE:

SAR: flavonoids and COX-2

inhibition

140:246066

AUTHOR (S):

Rosenkranz, Herbert S.; Thampatty, Bhavani P.

CORPORATE SOURCE:

Department of Biomedical Sciences, Florida Atlantic

University, Boca Raton, FL, 33431-0991, USA

SOURCE:

Oncology Research (2003), Volume Date 2002, 13(12),

529-535

CODEN: ONREE8; ISSN: 0965-0407

Cognizant Communication Corp.

DOCUMENT TYPE:

Journal

LANGUAGE:

PUBLISHER:

English

ED Entered STN:

04 Sep 2003

An anal. based upon structure-activity relationships (SAR) of the AB COX-2-inhibiting properties of flavonoids, a group of potential cancer chemopreventive agents, reveals that there is a dual structural basis for these activities. Each of these structural determinants (pharmacophores) alone is sufficient for activity. One of the pharmacophores is a 2D 6.9 Å distance descriptor that spans the A and C rings and includes the 4-oxo and 7-hydroxyl moieties. The potency associated with that pharmacophore is determined by a series of structural modulators that can increase, decrease, or even abolish the COX-2-inhibiting potential associated with that pharmacophore. The second pharmacophore describes a para-substituted phenolic B ring that requires unsubstituted meta and ortho positions. Based upon this, it indicates that hydroxylation at the 4'-position and a free 5'-position are sufficient for COX-2-inhibiting activity. The potency associated with this pharmacophore is modulated by log P2 and by the mol. weight

IT 329900-75-6, Cyclooxygenase-2

RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (structure-activity relationship of flavonoids as COX2 inhibitors)

RN 329900-75-6 CAPLUS

CN Synthetase, prostaglandin endoperoxide, 2 (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 480-37-5, Pinostrobin 480-40-0, Chrysin 487-26-3 , Flavanone 491-78-1, 5-Hydroxyflavone 520-28-5, 5-Hydroxy-7-methoxyflavone 525-82-6, Flavone 548-83-4, 3,5,7-Trihydroxyflavone 574-12-9, Isoflavone 577-85-5, 3-Hydroxyflavone 3034-04-6, 6-Methoxyflavanone 4250-77-5 , 6-Hydroxyflavanone 6665-83-4, 6-Hydroxyflavone 6665-86-7, 7-Hydroxyflavone 17348-76-4 19725-47-4, 2'-Methoxyflavone 38183-03-8, 7,8-Dihydroxyflavone 42079-78-7, 5-Methoxyflavone 55947-36-9, 5-Methoxyflavanone 71592-46-6, 3',6-Dihydroxyflavone 93176-00-2, 6-Methoxyflavonol 108238-40-0, 3',7-Dihydroxyflavone RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (structure-activity relationship of flavonoids as COX-2 inhibitors) RN 480-37-5 CAPLUS 4H-1-Benzopyran-4-one, 2,3-dihydro-5-hydroxy-7-methoxy-2-phenyl-, (2S)-CN (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 480-40-0 CAPLUS CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 487-26-3 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-2-phenyl- (9CI) (CA INDEX NAME)

RN 491-78-1 CAPLUS

CN 4H-1-Benzopyran-4-one, 5-hydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 520-28-5 CAPLUS

CN 4H-1-Benzopyran-4-one, 5-hydroxy-7-methoxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 525-82-6 CAPLUS

CN 4H-1-Benzopyran-4-one, 2-phenyl- (9CI) (CA INDEX NAME)

RN 548-83-4 CAPLUS

CN 4H-1-Benzopyran-4-one, 3,5,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 574-12-9 CAPLUS

CN 4H-1-Benzopyran-4-one, 3-phenyl- (9CI) (CA INDEX NAME)

RN 577-85-5 CAPLUS

CN 4H-1-Benzopyran-4-one, 3-hydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 3034-04-6 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-6-methoxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 4250-77-5 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-6-hydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 6665-83-4 CAPLUS

CN 4H-1-Benzopyran-4-one, 6-hydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 6665-86-7 CAPLUS

CN 4H-1-Benzopyran-4-one, 7-hydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 17348-76-4 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-2-(2-hydroxyphenyl)- (9CI) (CA INDEX NAME)

RN 19725-47-4 CAPLUS

CN 4H-1-Benzopyran-4-one, 2-(2-methoxyphenyl)- (9CI) (CA INDEX NAME)

RN 38183-03-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 7,8-dihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 42079-78-7 CAPLUS

CN 4H-1-Benzopyran-4-one, 5-methoxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 55947-36-9 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5-methoxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 71592-46-6 CAPLUS

CN 4H-1-Benzopyran-4-one, 6-hydroxy-2-(3-hydroxyphenyl)- (9CI) (CA INDEX NAME)

RN 93176-00-2 CAPLUS

CN 4H-1-Benzopyran-4-one, 3-hydroxy-6-methoxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 108238-40-0 CAPLUS

4H-1-Benzopyran-4-one, 7-hydroxy-2-(3-hydroxyphenyl)- (9CI) CN NAME)

REFERENCE COUNT:

17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 20 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2003:598189 CAPLUS

DOCUMENT NUMBER:

140:70453

TITLE:

Pharmacological evaluation of several major

ingredients of Chinese herbal medicines in human

hepatoma Hep3B cells

AUTHOR(S):

Chou, C. C.; Pan, S. L.; Teng, C. M.; Guh, J. H. College of Medicine, Pharmacological Institute, CORPORATE SOURCE:

National Taiwan University, Taipei, Taiwan

SOURCE:

European Journal of Pharmaceutical Sciences (2003),

19(5), 403-412 CODEN: EPSCED; ISSN: 0928-0987

PUBLISHER:

Elsevier B.V.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

ED

Entered STN: 05 Aug 2003

Long-dan-tan (Chinese name) is one of the most common herbal medicines used by Chinese people with chronic liver disease. Accumulated anecdotal evidence suggests that Long-dan-tan may show a beneficial effect in patients with hepatocellular carcinoma. Long-dan-tan is made from five plants: Gentiana root, Scutellaria root, Gardenia fruit, Alisma rhizome, and Bupleurum root. In this study, we have examined the cytotoxic effects of the five major ingredients isolated from the above plants, i.e. gentiopicroside, baicalein, geniposide, alisol B acetate and saikosaponin-d, resp., on human hepatoma Hep3B cells. Annexin V immunofluorescence detection, DNA fragmentation assays and FACScan anal. of propidium iodide-staining cells showed that gentiopicroside, baicalein, and geniposide had little effect, whereas alisol B acetate and saikosaponin-d profoundly induced apoptosis in Hep3B cells. Alisol B acetate, but not saikosaponin-d, induced G2/M arrest of the cell cycle as well as a significant increase in caspase-3 activity. Interestingly, baicalein by itself induced an increase in H2O2 generation and the subsequent NF-kB activation; furthermore, it effectively inhibited the transforming growth factor- β 1 (TGF- β 1)-induced caspase-3

activation and cell apoptosis. We suggest that alisol B acetate and saikosaponin-d induced cell apoptosis through the caspase-3-dependent and -independent pathways, resp. Instead of inducing apoptosis, baicalein inhibits TGF-β1-induced apoptosis via increase in cellular H2O2 formation and NF-κB activation in human hepatoma Hep3B cells. 491-67-8, Baicalein

RL: DMA (Drug mechanism of action); NPO (Natural product occurrence); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)

(pharmacol. evaluation of several major ingredients of Chinese herbal medicines Long-dan-tan in human hepatoma Hep3B cells)

RN 491-67-8 CAPLUS

IT

4H-1-Benzopyran-4-one, 5,6,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME) CN

REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2005 ACS on STN L30 ANSWER 21 OF 36

2003:557093 CAPLUS ACCESSION NUMBER:

139:390885 DOCUMENT NUMBER:

Inhibition of Cancer Cell Proliferation and TITLE:

Prostaglandin E2 Synthesis by Scutellaria Baicalensis Zhang, David Y.; Wu, Josephine; Ye, Fei; Xue, Li;

AUTHOR (S):

Jiang, Shiquan; Yi, Jizu; Zhang, Wandi; Wei, Huachen;

Sung, Max; Wang, Wayne; Li, Xiaoping

Department of Pathology, Mount Sinai School of CORPORATE SOURCE:

Medicine, New York, NY, 10029, USA

Cancer Research (2003), 63(14), 4037-4043 SOURCE:

CODEN: CNREA8; ISSN: 0008-5472

American Association for Cancer Research PUBLISHER:

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 21 Jul 2003

Scutellaria baicalensis is a widely used Chinese herbal medicine that has AB been used historically in anti-inflammatory and anticancer therapy. The purpose of this study is to verify its anticancer activity on head and neck squamous cell carcinoma (HNSCC) in vitro and in vivo and to investigate its effect on cyclooxygenase-2 (COX-2), which converts arachidonic acid to prostaglandin E2 (PGE2) and is highly expressed in Two human HNSCC cell lines (SCC-25 and KB) and a nontumorigenic HNSCC. cell line (HaCaT) were tested in vitro for growth inhibition, proliferation cell nuclear antigen expression, and COX-2 activity and expression after treatment with Scutellaria baicalensis extract Its effects were compared with those of baicalein (a flavonoid isolated from Scutellaria baicalensis), indomethacin (a nonselective COX inhibitor), and celecoxib (a selective COX-2 inhibitor). Four nude mice with s.c. inoculation of KB cells were tested for its anticancer activity in vivo by oral administration of Scutellaria baicalensis at a dose of 1.5 mg/mouse (75 mg/kg), five times/wk for 7 wk. Scutellaria baicalensis and other agents demonstrated a strong growth inhibition in both tested human HNSCC

cell lines. No growth inhibition of HaCaT cells was observed with Scutellaria baicalensis. The IC50s were 150 µg/mL for Scutellaria baicalensis, 25 µM for celecoxib, and 75 µM for baicalein and indomethacin. Scutellaria baicalensis, as well as celecoxib and indomethacin, but not baicalein, suppressed proliferation cell nuclear antigen expression and PGE2 synthesis in both cell types. Scutellaria baicalensis inhibited COX-2 expression, whereas celecoxib inhibited COX-2 activity directly. A 66% reduction in tumor mass was observed in the nude

Scutellaria baicalensis selectively and effectively inhibits cancer cell growth in vitro and in vivo and can be an effective chemotherapeutic agent for HNSCC. Inhibition of PGE2 synthesis via suppression of COX-2 expression may be responsible for its anticancer activity. Differences in biol. effects of Scutellaria baicalensis compared with baicalein suggest the synergistic effects among components in Scutellaria baicalensis.

491-67-8, Baicalein IT

mice.

RL: PAC (Pharmacological activity); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)

(comparison compound; inhibition of cancer cell proliferation and prostaglandin E2 synthesis by Scutellaria baicalensis)

491-67-8 CAPLUS RN

CN 4H-1-Benzopyran-4-one, 5,6,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

329900-75-6, Cyclooxygenase-2 IT

RL: BSU (Biological study, unclassified); BIOL (Biological study) (suppression of COX-2 expression;

inhibition of cancer cell proliferation and prostaglandin E2 synthesis by Scutellaria baicalensis)

329900-75-6 CAPLUS RN

Synthetase, prostaglandin endoperoxide, 2 (9CI)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2005 ACS on STN L30 ANSWER 22 OF 36

ACCESSION NUMBER:

2003:22700 CAPLUS

DOCUMENT NUMBER:

138:66652

TITLE:

Method for generating, screening, and dereplicating

natural product libraries for the discovery of

therapeutic agents

INVENTOR(S):

Jia, Qi; Hong, Mei-Feng

PATENT ASSIGNEE(S):

Unigen Pharmaceuticals, Inc., USA

SOURCE:

PCT Int. Appl., 111 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

KIND DATE APPLICATION NO.

DATE

```
20030109
                          A1
                                            WO 2002-US20602
                                                                    20020627
     WO 2003002134
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ,
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
                                 20030109
                                          CA 2002-2451844
                                                                    20020627
     CA 2451844
                          AA
                          A1
                                            US 2002-185758
     US 2003113797
                                 20030619
                                                                    20020627
                                           EP 2002-746757
                                 20040428
                                                                    20020627
     EP 1411958
                          Α1
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
                                 20050217
                                             JP 2003-508373
                                                                     20020627
     JP 2005504958
                         T2
                                             US 2001-301523P
                                                                 P
PRIORITY APPLN. INFO .:
                                                                    20010627
                                             WO 2002-US20602
                                                                 W
                                                                    20020627
                         MARPAT 138:66652
OTHER SOURCE(S):
     Entered STN: 10 Jan 2003
     The invention relates generally to a technol. platform, referred to as
AB
     PhytologixTM for the discovery of novel bioactive pharmaceutical,
     nutraceutical and cosmetic agents. Specifically, the invention includes
     an integrated system for the collection of medicinal plants and creation
     of informatic databases related to these plants. The invention also
     relates to an improved standardized extraction and fractionation process, which
     provides significant advantages over the prior art in the terms of
     simplicity, efficiency of the sepns., the quality of the library, low cost
     of the process and extraordinary throughput. The invention provides
     details to the structure dereplication process by utilizing the technol.
     such as {\tt HPLC/PDA/MS} coupled with high throughput bioassay data and an
     internal pure compound library. It has been proven to be much more
     efficient and accurate when compared to the prior art methods. Finally,
     the PhytologixTM platform has been approved as a realistic and efficient
     process by the determination of the whole process of discovery and development
of
     natural COX-2 and tyrosinase inhibitors as novel nutraceutical and
     cosmetic products.
     329900-75-6, Cyclooxygenase 2
IT
     RL: BSU (Biological study, unclassified); BIOL (Biological study)
        (inhibition; method for generating, screening, and
        dereplicating natural product libraries for discovery of therapeutic
        agents)
     329900-75-6 CAPLUS
RN
     Synthetase, prostaglandin endoperoxide, 2 (9CI) (CA INDEX NAME)
CN
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
     491-67-8P, Baicalein
     RL: NPO (Natural product occurrence); PAC (Pharmacological
     activity); PUR (Purification or recovery); THU (Therapeutic
     use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation);
     USES (Uses)
        (method for generating, screening, and dereplicating natural product
        libraries for discovery of therapeutic agents)
RN
     491-67-8 CAPLUS
     4H-1-Benzopyran-4-one, 5,6,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)
CN
```

IT 480-40-0

RL: PRP (Properties)

(method for generating, screening, and dereplicating natural product libraries for discovery of therapeutic agents)

RN 480-40-0 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 23 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:953358 CAPLUS

DOCUMENT NUMBER: 139:127612

TITLE: The role of the phenethyl ester of caffeic acid (CAPE)

in the inhibition of rat lung cyclooxygenase activity

by propolis

AUTHOR(S): Rossi, Antonietta; Longo, Rocco; Russo, Alessandra;

Borrelli, Francesca; Sautebin, Lidia

CORPORATE SOURCE: Department of Experimental Pharmacology, University of

Naples Federico II, Naples, Italy

SOURCE: Fitoterapia (2002), 73(Suppl. 1), S30-S37

CODEN: FTRPAE; ISSN: 0367-326X

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 17 Dec 2002

In this study we investigated the effect of an ethanolic extract of propolis, AB with and without CAPE, and some of its components on cyclooxygenase (COX) activity. Propolis (0.00003-0.03%) significantly and concentration-dependently inhibited COX activity from lung homogenate of saline- or LPS-treated Same results were obtained with CAPE (0.1-100 μM). COX activity from lung homogenate of saline- or LPS-treated rats was also inhibited by galangin (0.1-100 $\mu M) \,,$ although the inhibition induced by the lowest concentration was not significant. Caffeic, ferulic, cinnamic and chlorogenic acids and pinocembrin, (0.1-100 $\mu M)$ did not affect COX activity. The inhibition curves showed that CAPE and propolis were equipotent inhibitors, whereas galangin was significantly (P<0.001) less potent than propolis and CAPE. In order to better investigate the role of CAPE, we tested the action of an ethanolic extract of propolis (0.00003-0.03%) without CAPE. This extract significantly and concentration-dependently inhibited COX activity from lung homogenate of saline- or LPS-treated rats, however, it resulted to be approx. 10 times less potent than the extract containing CAPE.

The anal. of the inhibition curves of the extract with and without CAPE showed a significant (P<0.001) difference. These results suggest that both CAPE and galangin contribute to the overall activity of propolis, CAPE being more effective.

IT 329900-75-6, Cyclooxygenase 2

RL: BSU (Biological study, unclassified); BIOL (Biological study) (propolis, CAPE, and galangin in cyclooxygenase inhibition in lung)

RN 329900-75-6 CAPLUS

CN Synthetase, prostaglandin endoperoxide, 2 (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 548-83-4, Galangin

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(propolis, CAPE, and galangin in cyclooxygenase inhibition in lung)

RN 548-83-4 CAPLUS

CN 4H-1-Benzopyran-4-one, 3,5,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 24 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2002:896595 CAPLUS

DOCUMENT NUMBER:

139:46663

TITLE:

The inhibitory effect of propolis and caffeic acid

phenethyl ester on cyclooxygenase activity in J774

macrophages

AUTHOR(S):

Rossi, A.; Ligresti, A.; Longo, R.; Russo, A.;

Borrelli, F.; Sautebin, L.

CORPORATE SOURCE:

Department of Experimental Pharmacology, University of

Naples, Naples, Italy

SOURCE:

Phytomedicine (2002), 9(6), 530-535

CODEN: PYTOEY; ISSN: 0944-7113

PUBLISHER:

Urban & Fischer Verlag GmbH & Co. KG

DOCUMENT TYPE:

Journal

LANGUAGE:

English

ED Entered STN: 26 Nov 2002

The effect of an ethanolic extract of propolis, with and without CAPE, and some of its components on cyclooxygenase (COX-1 and COX-2) activity in J774 macrophages has been investigated. COX-1 and COX-2 activity, measured as prostaglandin E2 (PGE2) production, were concentration-dependently inhibited by propolis (3 + 10-3-3 + 102 μg/mL) with an IC50 of 2.7 μg/mL and 4.8 + 10-2 μg/mL, resp. Among the compds. tested pinocembrin and caffeic, ferulic, cinnamic and chlorogenic acids did not affect the activity of COX isoforms. Conversely, caffeic acid phenethyl ester (CAPE) (2.8 + 10-4-28 μg/mL; 10-9-10-4 M) and galangin (2.7 + 10-4-27 μg/mL; 10-9-10-4 M) were effective, the last being about ten-twenty times less potent. In fact the IC50 of CAPE for COX-1 and COX-2 were 4.4 + 10-1 μg/mL (1.5 + 10-6 M)

and 2 + 10-3 μ g/mL (6.3 + 10-9 M), resp. The IC50 of galangin were 3.7 μ g/mL (15 + 10-6 M) and 3 + 10-2 μ g/mL (120 + 10-9 M), for COX-1 and COX-2 resp. To better investigate the role of CAPE, we tested the action of the ethanolic extract of propolis deprived of CAPE, which resulted about ten times less potent than the extract with CAPE in the inhibition of both COX-1 and COX-2, with an IC50 of 30 μ g/mL and 5.3 + 10-1 μ g/mL, resp. Moreover the comparison of the inhibition curves showed a significant difference. These results suggest that both CAPE and galangin contribute to the overall activity of propolis, CAPE being more effective.

IT 329900-75-6, COX 2

RL: BSU (Biological study, unclassified); BIOL (Biological study) (propolis and caffeic acid phenethyl ester inhibitory effect on cyclooxygenase activity in J774 macrophages and active components therein)

RN 329900-75-6 CAPLUS

CN Synthetase, prostaglandin endoperoxide, 2 (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 548-83-4, Galangin

RL: PAC (Pharmacological activity); BIOL (Biological study) (propolis and caffeic acid phenethyl ester inhibitory effect on cyclooxygenase activity in J774 macrophages and active components therein)

RN 548-83-4 CAPLUS

CN 4H-1-Benzopyran-4-one, 3,5,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 25 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

18

ACCESSION NUMBER:

2002:754 CAPLUS

DOCUMENT NUMBER:

136:197008

TITLE:

Novel compounds from Piper methysticum Forst (Kava Kava) roots and their effect on cyclooxygenase enzyme

AUTHOR(S):

Wu, Di; Nair, Muraleedharan G.; DeWitt, David L.

CORPORATE SOURCE:

Bioactive Natural Products and Phytoceuticals
Department of Horticulture and National Food Safety

and Toxicology Center and Department of Biochemistry, Michigan State University, East Lansing, MI, 48824,

USA

SOURCE:

Journal of Agricultural and Food Chemistry (2002),

50(4), 701-705

CODEN: JAFCAU; ISSN: 0021-8561

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal

LANGUAGE:

English

ED Entered STN: 31 Dec 2001

GΙ

Ι

$$\begin{array}{c|c} & & & \\ &$$

Milled Piper methysticum roots were extracted sequentially with hot water and methanol. Cyclooxygenase (COX) enzyme inhibitory assay directed purification of the methanol extract yielded bornyl esters of 3,4-methylenedioxy cinnamic acid (I) and cinnamic acid (II), pinostrobin (III), flavokawain B (IV), and 5,7-dimethoxyflavanone (V). The structures of compds. I-V were accomplished by spectral expts. The aqueous extract contained previously reported kava lactones, as confirmed by TLC anal. Compds. III and V were isolated for the first time from kava kava roots. Compound IV showed the highest COX-I inhibitory activity at 100 μg/mL. All the compds. tested gave good COX-I and moderate COX-II enzyme inhibitory activities at 100 μg/mL. This is the first report of COX-I and -II inhibitory activities for compds. 1-5.

1T 480-37-5, Pinostrobin 36052-66-1, 5,7-Dimethoxyflavanone
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity); BIOL (Biological study)
(cyclooxygenase inhibitors from Piper methysticum)

RN 480-37-5 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5-hydroxy-7-methoxy-2-phenyl-, (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

RN 36052-66-1 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dimethoxy-2-phenyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 329900-75-6, Cyclooxygenase 2

RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (inhibitor; cyclooxygenase inhibitors from Piper
 methysticum)

329900-75-6 CAPLUS RN

Synthetase, prostaglandin endoperoxide, 2 (9CI) (CA INDEX NAME) CN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT:

23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 26 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2001:591840 CAPLUS

DOCUMENT NUMBER:

135:366461

TITLE:

Inhibition of TPA-induced

cyclooxygenase-2 expression and skin

inflammation in mice by wogonin, a plant flavone from

Scutellaria radix

AUTHOR(S):

Park, B. K.; Heo, M. Y.; Park, H.; Kim, H. P.

CORPORATE SOURCE:

Kangwon National University, College of Pharmacy,

Chunchon, 200-701, S. Korea

SOURCE:

European Journal of Pharmacology (2001), 425(2),

153-157

CODEN: EJPHAZ; ISSN: 0014-2999

PUBLISHER:

Elsevier Science B.V.

DOCUMENT TYPE:

Journal English

LANGUAGE:

Entered STN: 15 Aug 2001 ED

Wogonin (5,7-dihydroxy-8-methoxyflavone), isolated from Scutellaria radix, AB was previously reported to inhibit the expression and activity of the enzyme cyclooxygenase-2 in lipopolysaccharide (LPS)-stimulated cells of a mouse macrophage cell line, RAW 264.7. Here, to find in vivo effects, inhibition by wogonin of 12-0-tetradecanoylphorbol-13-acetate (TPA) -induced cyclooxygenase-2 expression and anti-inflammatory activity in vivo were investigated. When applied topically to the dorsal skin of mice, wogonin at doses of 50-200 µg/site/treatment (total of five treatments in 3 days) inhibited cyclooxygonase-2 expression and prostaglandin E2 production induced by multiple treatments with TPA. At 200 μg/site/treatment, wogonin caused a 55.3% reduction of prostaglandin E2 production on the dorsal skin compared with an increased production in the TPA-treated control group. The same compound significantly inhibited mouse ear edema induced by TPA in both preventive (58.1% inhibition) as well as curative treatment (31.3% inhibition) schedules at 200 $\mu g/ear/treatment$. Inhibition of neutrophil infiltration was also observed Therefore, wogonin may be beneficial for cyclooxygenase-2-related skin disorders.

632-85-9, Wogonin TT

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(inhibition of TPA-induced cyclooxygenase-2

expression and skin inflammation in mice by wogonin)

RN

4H-1-Benzopyran-4-one, 5,7-dihydroxy-8-methoxy-2-phenyl- (9CI) (CA INDEX CN NAME)

329900-75-6, Cyclooxygenase-2 IT

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL

(Biological study); PROC (Process) (inhibition of TPA-induced cyclooxygenase-2

expression and skin inflammation in mice by wogonin)

RN329900-75-6 CAPLUS

Synthetase, prostaglandin endoperoxide, 2 (9CI) (CA INDEX NAME) CN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT:

THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS 20

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 27 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

CORPORATE SOURCE:

2001:575376 CAPLUS

DOCUMENT NUMBER:

136:465

TITLE:

The plant flavonoid wogonin suppresses death of activated C6 rat glial cells by inhibiting nitric

oxide production

AUTHOR(S):

Kim, H.; Kim, Y. S.; Kim, S. Y.; Suk, K. Graduate School of East-West Medical Science, Department of Herbal Pharmacology, Kyung Hee

University, Tongdaemun-ku, Hoegi-dong, Seoul, 130-701,

S. Korea

SOURCE:

Neuroscience Letters (2001), 309(1), 67-71

CODEN: NELED5; ISSN: 0304-3940 Elsevier Science Ireland Ltd.

PUBLISHER:

DOCUMENT TYPE: Journal English

LANGUAGE:

ED Entered STN: 09 Aug 2001

Flavonoids are a group of low mol. weight polyphenolic compds. derived from AΒ plants. 5,7-Dihydroxy-8-methoxyflavone (Wogonin), a flavonoid originated from the root of Scutellaria baicalensis Georgi, has been shown to exert various anti-inflammatory effects such as inhibition of nitric oxide (NO) and prostaglandin E2 production in macrophages. Because glial cells have been previously shown to undergo NO-dependent apoptosis upon inflammatory activation and this auto-regulatory process may be neg. affected by exogenous factors possessing anti-inflammatory activities, we examined the effects of wogonin on NO production and activation-induced cell death of C6 rat glial cells. Activation of C6 glial cells with lipopolysaccharide (LPS), interferon- γ , and tumor necrosis factor- α induced NO production followed by cell death. Pretreatment of C6 cells with wogonin before LPS and cytokine treatment dose-dependently inhibited NO production as well as death of activated C6 cells. Wogonin-mediated inhibition of NO production was accompanied by suppression of inducible nitric oxide synthase (iNOS) protein induction and nuclear factor kappa B (NF-κB) reporter activity. Wogonin, however, did not affect a NO donor-induced cytotoxicity. Taken together, our results indicate that wogonin inhibits activation-induced death of C6 glial cells by suppressing NO production, and these inhibitory effects of wogonin on NO production are exerted through

inhibition of NF-kB-mediated iNOS induction.

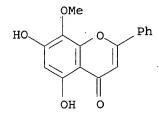
IT 632-85-9, Wogonin

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(plant flavonoid wogonin suppresses death of activated C6 rat glial cells by inhibiting nitric oxide production)

RN 632-85-9 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-8-methoxy-2-phenyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 28 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2001:319721 CAPLUS

DOCUMENT NUMBER:

134:336233

TITLE:

Flavones as inducible nitric oxide synthase

inhibitors, cyclooxygenase-2

inhibitors, and potassium channel activators,

and therapeutic use

INVENTOR(S):

Lee, Tony Jer-Fu; Chen, Yang Ling Ling

PATENT ASSIGNEE(S):

Board of Trustees of Southern Illinois University, USA

PCT Int. Appl., 97 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

SOURCE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.					KIND		DATE		APPLICATION NO.					DATE			
	0 2001030342				Δ1		20010503		WO 2000-US41396				20001020				
WC																	
	₩:	ΑE,	AG,	ΑL,	AM,	ΑT,	AU,	ΑZ,	BA,	BB,	ВG,	BR,	ΒY,	ΒZ,	CA,	.CH,	CN,
		CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,
		HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,
		LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	ΜZ,	NO,	NZ,	PL,	PT,	RO,	RU,
		SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UΑ,	UG,	US,	UZ,	VN,
		ΥU,	ZA,	ZW,	AM,	ΑZ,	BY,	KG,	KZ,	MD,	RU,	ТJ,	TM				
	RW:	GH,	GM,	ΚE,	LS,	MW,	MZ,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,
·		DE,	DK,	ES,	FΙ,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,
		CF,	CG,	CI,	CM,	GΑ,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG			
US 6806257				B1 20041019				1	US 2000-693130				20001020				
PRIORITY APPLN. INFO.:									US 1999-160612P					P 19991020			
OTHER S	MARPAT 134:336233																
DD D-	والمستناسين	CONT	_	4 14-		^ 1											

ED Entered STN: 04 May 2001

AB A method is provided for inhibiting expression of either iNOS or COX-2, or both in mammals using flavone compds., and pharmaceutically acceptable salts thereof. The present invention also provides a method of activating

potassium channels in mammals, as well as methods for treating septic shock, for inhibiting expression of angiotensin-converting enzyme, for treating or preventing aneurysms, and for reducing inflammation and related pathol. changes using these compds. Presently preferred compds. are oroxylin A (5,7-dihydroxy-6-methoxy flavone) and wogonin (5,7-dihydroxy-8-methoxy flavone).

IT 480-11-5, Oroxylin A 491-67-8, Baicalein 632-85-9, Wogonin 4431-41-8 18956-18-8

21967-41-9, Baicalin

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(flavones as inducible NO synthase inhibitors, cyclooxygenase-2 inhibitors, and potassium channel activators, and therapeutic use)

RN 480-11-5 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-6-methoxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 491-67-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,6,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 632-85-9 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-8-methoxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 4431-41-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-8-methoxy-2-phenyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 18956-18-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-6-methoxy-2-phenyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 21967-41-9 CAPLUS

CN β-D-Glucopyranosiduronic acid, 5,6-dihydroxy-4-oxo-2-phenyl-4H-1benzopyran-7-yl (9CI) (CA INDEX NAME)

Absolute stercochemistry.

IT 329900-75-6, Cyclooxygenase 2

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(flavones as inducible NO synthase inhibitors,

 ${\tt cyclooxygenase-2\ inhibitors}, \ {\tt and\ potassium}$

channel activators, and therapeutic use)

RN 329900-75-6 CAPLUS

CN Synthetase, prostaglandin endoperoxide, 2 (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 29 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2001:293393 CAPLUS

DOCUMENT NUMBER:

135:102178

TITLE: Wogonin, baicalin, and baicalein inhibition

of inducible nitric oxide synthase and

cyclooxygenase-2 gene expressions

induced by nitric oxide synthase inhibitors

and lipopolysaccharide

AUTHOR(S): Chen, Y.-C.; Shen, S.-C.; Chen, L.-G.; Lee, T. J.-F.;

Yang, L.-L.

CORPORATE SOURCE: Graduate Institute of Pharmacognosy Science, Taipei

Medical University, Taipei, Taiwan

SOURCE: Biochemical Pharmacology (2001), 61(11), 1417-1427

CODEN: BCPCA6; ISSN: 0006-2952

PUBLISHER: Elsevier Science Inc.

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 25 Apr 2001

We previously reported that oroxylin A, a polyphenolic compound, was a AB potent inhibitor of lipopolysaccharide (LPS) - induced expression of inducible nitric oxide synthase (iNOS) and cyclooxygenase-2 (COX-2). the present study, three oroxylin A structurally related polyphenols isolated from the Chinese herb Huang Qui, namely baicalin, baicalein, and wogonin, were examined for their effects on LPS-induced nitric oxide (NO) production and iNOS and COX-2 gene expressions in RAW 264.7 macrophages. The results indicated that these three polyphenolic compds. inhibited LPS-induced NO production in a concentration-dependent manner without a notable cytotoxic effect on these cells. The decrease in NO production was in parallel with the inhibition by these polyphenolic compds. of LPS-induced iNOS gene expression. However, these three compds. did not directly affect iNOS enzyme activity. In addition, wogonin, but not baicalin or baicalein, inhibited LPS-induced prostaglandin E2 (PGE2) production and COX-2 gene expression without affecting COX-2 enzyme activity. Furthermore, N-nitro-l-arginine (NLA) and N-nitro-l-arginine Me ester (L-NAME) pretreatment enhanced LPS-induced iNOS (but not COX-2) protein expression, which was inhibited by these three polyphenolic compds. Wogonin, but not baicalin or baicalein, similarly inhibited PGE2 production and COX-2 protein expression in NLA/LPS or L-NAME/LPS-co-treated RAW 264.7 cells. These results indicated that co-treatment with NOS inhibitors and polyphenolic compds. such as wogonin effectively blocks acute production of NO and, at the same time, inhibits expression of iNOS and COX-2 genes.

IT 491-67-8P, Baicalein 632-85-9P, Wogonin

21967-41-9P, Baicalin

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation)

(wogonin baicalin and baicalein **inhibit** inducible nitric oxide synthase and **cyclooxygenase-2** gene expression)

RN 491-67-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,6,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 632-85-9 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-8-methoxy-2-phenyl- (9CI) (CA INDEX

NAME)

RN 21967-41-9 CAPLUS

CN β-D-Glucopyranosiduronic acid, 5,6-dihydroxy-4-oxo-2-phenyl-4H-1benzopyran-7-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 329900-75-6, cyclooxygenase-2

RL: BFR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(wogonin baicalin and baicalein **inhibit** inducible nitric oxide synthase and **cyclooxygenase-2** gene

expression)

RN 329900-75-6 CAPLUS

CN Synthetase, prostaglandin endoperoxide, 2 (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT:

51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 30 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2001:59686 CAPLUS

DOCUMENT NUMBER:

134:222030

TITLE:

AB

Inhibition of inducible nitric oxide

synthase and cyclooxygenase-2

expression by flavonoids in macrophage J774A.1

AUTHOR(S):

Raso, Giuseppina Mattace; Meli, Rosaria; Di Carlo,

Giulia; Pacilio, Maria; Di Carlo, Raffaele

CORPORATE SOURCE:

Department of Experimental Pharmacology, University of

Naples "Federico II", Naples, Italy Life Sciences (2001), 68(8), 921-931

SOURCE:

CODEN: LIFSAK; ISSN: 0024-3205

CODEN. HITSAK, ISSN. 002-

PUBLISHER:

Elsevier Science Inc.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

ED Entered STN: 25 Jan 2001

The present study focuses on the effect of various naturally occurring

flavonoids (apigenin, galangin, morin, naringenin, quercetin, and silymarin) on nitric oxide (NO) and prostaglandin E2 (PGE2) production induced by lipopolysaccharide (LPS) in the macrophage cell line J774A.1. Moreover, the authors evaluated flavonoid modulation of inducible nitric oxide synthase (iNOS) and cyclooxygenase-2 (COX-2) enzyme expression by western blot anal. Apigenin and quercetin (0.5-50 $\mu\text{M})$ were the most potent inhibitors of NO production and this effect was concentration-dependent

and

significant at 5 and 50 μ M. These data were consistent with the modulation of iNOS enzyme expression. A similar pattern was observed considering the inhibitory effect of flavonoids on LPS-induced PGE2 release and COX-2 expression. Quercetin, galangin, apigenin, and naringenin markedly decreased PGE2 release and COX-2 expression in a concentration-dependent manner. This study suggests that inhibition of iNOS

and

COX-2 expression by flavonoids may be one of the mechanisms responsible for their anti-inflammatory effects.

IT **548-83-4**, Galangin

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study) (nitric oxide synthase and cyclooxygenase-2 expression inhibition by flavonoids in macrophage J774A.1)

RN 548-83-4 CAPLUS

CN 4H-1-Benzopyran-4-one, 3,5,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 31 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2000:736092 CAPLUS

DOCUMENT NUMBER:

134:65939

TITLE:

Wogonin inhibits inducible prostaglandin E2 production

in macrophages

AUTHOR (S):

Wakabayashi, I.; Yasui, K.

CORPORATE SOURCE:

School of Medicine, Department of Hygiene and

Preventive Medicine, Yamagata University, Yamagata,

990-9585, Japan

SOURCE:

European Journal of Pharmacology (2000), 406(3),

477-481

CODEN: EJPHAZ; ISSN: 0014-2999

PUBLISHER:

Elsevier Science B.V.

DOCUMENT TYPE:

Journal

LANGUAGE: English ED Entered STN: 18 Oct 2000

AB Effects of 5,7-dihydroxy-8-methoxyflavone (wogonin) on cyclooxygenase-2 (COX-2)-mediated prostaglandin E2 production in macrophages were investigated. Stimulation with lipopolysaccharide (LPS; 1 μ g/mL) greatly increased prostaglandin E2 production in RAW 264.7 murine macrophages. The stimulated prostaglandin E2 production was abolished in the presence of indomethacin (1 μ M) or cycloheximide (2 μ M), suggesting that the increased production of prostaglandin E2 by LPS reflects the inducible synthesis of prostaglandin

E2 by COX-2. Wogonin (0.1-50 μM) concentration-dependently inhibited inducible prostaglandin E2 production Wogonin at concns. as low as 0.5 μM directly attenuated enzymic activity of COX-2. The protein expression of COX-2 was depressed by wogonin at concns. of 10 μM and more. These results suggest that wogonin decreases inducible prostaglandin E2 production in macrophages by inhibiting both COX-2 activity and COX-2 expression. The former action requires much lower doses of wogonin. These wogonin actions may explain, in part, its anti-inflammatory action.

632-85-9, Wogonin IT

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(wogonin inhibits inducible prostaglandin E2 production in macrophages)

RN 632-85-9 CAPLUS

4H-1-Benzopyran-4-one, 5,7-dihydroxy-8-methoxy-2-phenyl- (9CI) (CA INDEX CN NAME)

THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: 17

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

LOO ANSWER 32 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2000:429383 CAPLUS

DOCUMENT NUMBER:

133:190454

TITLE:

Isolation of COX-2

inhibitors from Alpinia officinarum

Kang, Sam Sik; Kim, Ju Sun; Son, Kun Ho; Kim, Hyun AUTHOR (S):

Pyo; Chang, Hyeun Wook

CORPORATE SOURCE:

Natural Products Research Institute, Seoul National

University, Seoul, 110-460, S. Korea

SOURCE:

Saengyak Hakhoechi (2000), 31(1), 57-62

CODEN: SYHJAM; ISSN: 0253-3073 Korean Society of Pharmacognosy

PUBLISHER: DOCUMENT TYPE:

Journal

LANGUAGE:

Korean

ED Entered STN: 28 Jun 2000

By bioassay-guided fractionation followed by chromatog. separation of the MeOH extract of Alpinia rhizome, five COX-2 inhibitors were isolated and characterized as pinocembrin, galangin 3-Me ether, galangin, kaempferid, and 5-hydroxy-7-(4''-hydroxy-3''-methoxyphenyl)-1-phenyl-3-heptanone.

480-39-7, Pinocembrin 548-83-4, Galangin IT

6665-74-3, Galangin 3-Methyl ether

RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)

(cytochrome c oxidase-2 inhibitors from Alpinia officinarum)

RN480-39-7 CAPLUS

CN4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-2-phenyl-, (2S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 548-83-4 CAPLUS

CN 4H-1-Benzopyran-4-one, 3,5,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 6665-74-3 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-3-methoxy-2-phenyl- (9CI) (CA INDEX NAME)

L30 ANSWER 33 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2000:221498 CAPLUS

DOCUMENT NUMBER: 133:115041

TITLE: Oroxylin A inhibition of

lipopolysaccharide-induced iNOS and COX2 gene expression via suppression of

nuclear factor-κ
B activation

AUTHOR(S): Chen, Y.-C.; Yang, L.-L.; Lee, T. J.-F.

CORPORATE SOURCE: Department of Pharmacology, Southern Illinois

University, School of Medicine, Springfield, IL, USA

SOURCE: Biochemical Pharmacology (2000), 59(11), 1445-1457

CODEN: BCPCA6; ISSN: 0006-2952

PUBLISHER: Elsevier Science Inc.

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 06 Apr 2000

AB Polyphenols are major components of many traditional herbal remedies, which exhibit several beneficial effects including anti-inflammation. The exact mechanism of the anti-inflammatory action of polyphenols, however, has not been determined In the present study, we examined the effects of eight different polyphenols isolated from Chinese herbs, including two flavonoids (myricitrin and oroxylin A), four ellagitannins

(penta-O-galloyl-β-glucopyranose, woodfordin C, oenothein B, and cuphiin D1), and two anthraquinones (emodin and physcion), on lipopolysaccharide (LPS)-induced nitric oxide (NO) production, and inducible nitric oxide synthase (iNOS) and cyclooxygenase-2 (COX-2) gene expression in RAW264.7 macrophages. The results indicated that only oroxylin A and emodin concentration-dependently inhibited LPS-induced NO production The remaining

compds. slightly inhibited LPS-induced NO production only at the highest concentration examined Furthermore, oroxylin A inhibited the expression of LPS-induced iNOS and COX-2 proteins and mRNAs without an appreciable cytotoxic effect on RAW264.7 cells. Emodin also inhibited LPS-induced iNOS protein as potently as oroxylin A, but it inhibited LPS-induced iNOS mRNA expression only slightly and did not affect COX-2 mRNA and proteins. This was consistent with the findings that oroxylin A but not emodin or physcion inhibited prostaglandin E2 synthesis induced by LPS. The inhibitory effects of oroxylin A on LPS-induced iNOS and COX-2 gene expression were also demonstrated in Bcl-2-overexpressing RAW264.7 macrophages, suggesting that oroxylin A inhibition of iNOS and COX-2 expression was not due to its antioxidant effect. Furthermore, oroxylin A but not emodin blocked nuclear factor-κB (NF-κB) binding and transcriptional activation associated with decreased p65 proteins in the nucleus induced by LPS. These results indicated that oroxylin A, an active component in Huang Qin, inhibited LPS-induced iNOS and COX-2 gene expression by blocking NF-kB activation, whereas emodin inhibition of LPS-induced iNOS expression may be mediated by a different transcription factor.

IT 480-11-5, Oroxylin A

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(oroxylin A inhibition of lipopolysaccharide-induced iNOS and COX-2 gene expression via suppression of nuclear factor-κ B

activation)

RN 480-11-5 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-6-methoxy-2-phenyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 34 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1997:394438 CAPLUS

DOCUMENT NUMBER:

127:90161

TITLE:

Casein kinase II is a selective target of HIV-1

transcriptional inhibitors

AUTHOR (S):

Critchfield, J. William; Coligan, John E.; Folks,

Thomas M.; Butera, Salvatore T.

CORPORATE SOURCE:

Retrovirus Diseases Branch, Division Acquired Immunodeficiency Syndrome, Sexually Transmitted Diseases, Tuberculosis Laboratory Research, Centers

Disease Control Prevention, Atlanta, GA, 30333, USA SOURCE:

Proceedings of the National Academy of Sciences of the

United States of America (1997), 94(12), 6110-6115

CODEN: PNASA6; ISSN: 0027-8424

National Academy of Sciences PUBLISHER:

DOCUMENT TYPE: Journal English LANGUAGE: Entered STN: 26 Jun 1997 ED

The identification of cellular factors that are required to complete AB various steps of the HIV-1 life cycle may lead to the development of new therapeutics. One key step, transcription from the integrated provirus, is inhibited by members of two distinct classes of compds., the flavonoids and the benzothiophenes, via an unknown mechanism, possibly involving a cellular factor. A marked specificity toward inhibiting HIV-1 transcription is evidenced by the ability of drug-treated cells to retain their proliferative and differentiation capabilities. In addition, the compds. do not impede the activation and function of the transcriptional factor NF-kB. Here we report on the identification of several cellular proteins that mediate the HIV-1 transcriptional inhibitory property of the flavonoid chrysin. Chemical and immunol. analyses identified these cellular proteins as the individual subunits of casein kinase II (CKII). Though structurally unrelated to chrysin, an HIV-1 inhibitory benzothiophene also bound selectively to CKII. Both chrysin and the benzothiophenes inhibited human recombinant CKII enzymic activity and showed competitive kinetics with respect to ATP, analogous to the classic CKII inhibitor 5,6-dichloro-1-β-D-ribofuranosylbenzimidazole (DRB). Moreover, DRB potently inhibited HIV-1 expression in chronically infected cells. CKII may regulate HIV-1 transcription by phosphorylating cellular proteins involved in HIV-1 transactivation that contain multiple CKII phosphorylation consensus sequences.

480-40-0, Chrysin IT

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(casein kinase II is a selective target of HIV-1 transcriptional inhibitors)

480-40-0 CAPLUS RN

4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-phenyl- (9CI) (CA INDEX NAME) CN

46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 35 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1997:54402 CAPLUS

DOCUMENT NUMBER:

126:139673

TITLE:

Selective inhibition of tumor necrosis

factor-induced vascular cell adhesion molecule-1 gene expression by a novel flavonoid. Lack of effect on

transcription factor NF-κ

Woelle, Joachim; Hill, Russell R.; Ferguson, Erika; AUTHOR(S):

Devall, Larry J.; Trivedi, B. K.; Newton, Roger S.;

Saxena, Uday

CORPORATE SOURCE: Dep. Atherosclerosis Therapeutics & Chem., Warner

Lambert Co., Ann Arbor, MI, USA

SOURCE: Arteriosclerosis, Thrombosis, and Vascular Biology

(1996), 16(12), 1501-1508

CODEN: ATVBFA; ISSN: 1079-5642

PUBLISHER: American Heart Association

DOCUMENT TYPE: Journal LANGUAGE: English

ED Entered STN: 25 Jan 1997

AB In the present studies, we examined the effect of flavonoids on the endothelial cell expression of adhesion mols., an early step in inflammation and atherogenesis. Addition of tumor necrosis factor-α (TNF) to human aortic endothelial cells (HAECs) led to the induction of vascular cell adhesion mol.-1 (VCAM-1) expression and enhancement in expression of intercellular adhesion mol.-1 (ICAM-1). A flavonoid, 2-(3-amino-phenyl)-8-methoxy-chromene-4-one (PD 098063), markedly inhibited TNF-induced VCAM-1 cell-surface expression in a

concentration-dependent

fashion with half-maximal inhibition at 19 μ mol/L but had no effect on ICAM-1 expression. Another structurally distinct flavonoid, 2-phenyl-chromene-4-one, similarly selectively decreased VCAM-1 expression. The inhibition in cell-surface expression of VCAM-1 by PD 098063 correlated with decreases in steady-state mRNA levels, but there was no effect on ICAM-1 mRNA levels. The decrease in VCAM-1 mRNA levels was not due to changes in mRNA stability but rather resulted from a reduction in the rate of transcription of the gene. However, electrophoretic mobility shift assays using nuclear exts. from TNF-induced HAECs treated with PD 098063 failed to show a decrease in the activation of NF- κB , indicating that inhibition of activation of this transcription factor may not be its mode of action. Similarly, PD 098063 did not affect chloramphenicol acetyltransferase reporter gene activity in TNF-inducible minimal VCAM-1 promoter constructs containing two NF-kB sites, suggesting that the compound does not affect the transactivation driven by these sites. We conclude that this compound selectively blocks agonist-induced VCAM-1 protein and gene expression in HAECs by NF-κB-independent mechanism(s).

IT 480-40-0 491-78-1 525-82-6 35244-11-2 70460-18-3

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study) (flavonoid PD 098063 blocks agonist-induced VCAM-1 protein and gene expression in human aortic endothelial cells by NF- k B-independent mechanism)

RN 480-40-0 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 491-78-1 CAPLUS

CN 4H-1-Benzopyran-4-one, 5-hydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 525-82-6 CAPLUS

CN 4H-1-Benzopyran-4-one, 2-phenyl- (9CI) (CA INDEX NAME)

RN 35244-11-2 CAPLUS

CN 4H-1-Benzopyran-4-one, 2-(2-hydroxyphenyl)- (9CI) (CA INDEX NAME)

RN 70460-18-3 CAPLUS

CN 4H-1-Benzopyran-4-one, 2-(3-hydroxyphenyl)- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L30 ANSWER 36 OF 36 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1996:530188 CAPLUS

DOCUMENT NUMBER:

125:193182

TITLE:

Inhibition by antioxidants of nitric oxide

synthase expression in murine macrophages: role of

nuclear factor K

B and interferon regulatory factor 1

AUTHOR(S):

Hecker, Markus; Preiss, Christiane; Klemm, Peter;

Busse, Rudi

CORPORATE SOURCE:

Centre Physiology, Johann Wolfgang Goethe University

Clinic, Frankfurt/M., Germany

SOURCE:

British Journal of Pharmacology (1996), 118(8),

2178-2184

CODEN: BJPCBM; ISSN: 0007-1188

PUBLISHER: DOCUMENT TYPE: Stockton Journal

LANGUAGE: English
ED Entered STN: 05 Sep 1996

In view of the potential deleterious effects of high amts. of nitric oxide AB (NO) produced by the inducible isoform of NO synthase (iNOS) in inflammation, the prevention of the expression of this enzyme represents an important therapeutic goal. In cytokine-stimulated cells activation of nuclear factor κB (NF-κB) is crucial for the increase in iNOS gene expression. Since NF-kB activation appears to involve a redox-sensitive step, the authors investigated whether 3 structurally unrelated antioxidants, 5,7-dihydroxyflavone (chrysin), 3,4-dichloroisocoumarin (DCI), and N-acetyl 5-hydroxytryptamine (N-acetylserotonin, NAS), affect iNOS expression in cultured RAW 264.7 monocyte/macrophages stimulated with bacterial lipopolysaccharide (LPS, 140 ng ml-1) and interferon- γ (IFN γ , 5 u ml-1). During a 6 h incubation period neither LPS nor IFNy alone exerted an effect but when combined, caused a prominent increase in nitrite formation, iNOS mRNA and protein abundance. Coincubation with chrysin (50 μ M), DCI (50 $\mu \text{M})\,,$ or NAS (1 mM) markedly attenuated this increase in iNOS gene expression. DCI, but not chrysin or NAS, prevented the activation of $NF-\kappa B$ in cells exposed to LPS plus IFN γ for 30 min. contrast, all 3 antioxidants blunted the DNA-binding activity of interferon regulatory factor 1 (IRF-1), which mediates the synergistic effect of IFN γ on iNOS gene expression in cells treated for 2 h with LPS plus IFN γ . DCI thus appears to inhibit iNOS gene expression at the transcriptional level by preventing the activation of both NF- κB The inhibitory effect of DCI on NF-kB activation; and IRF-1. however, does not seem to be related to its antioxidative properties, since DCI, unlike chrysin or NAS, is a potent serine protease inhibitor which stabilizes the inactive NF-kB complex by protecting the inhibitory $I\kappa B$ -lpha subunit from proteolytic degradation. The virtually identical inhibitory effect of chrysin, DCI, and NAS on the activation of IRF-1 points to a redox-sensitive step in the activation of this transcription factor, which in contrast to NF- κB requires de novo protein synthesis. Since iNOS gene expression in human cells and tissues usually requires the combination of several cytokines, antioxidants such as chrysin and NAS which do not interfere with the activation of NF- κB may be of therapeutic value for selectively inhibiting the enhanced expression of this enzyme in inflammation.

IT 480-40-0, Chrysin

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

 $(\mathbf{NF} - \kappa \ \mathbf{B} \ \text{and interferon regulatory}$

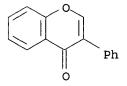
factor 1 role in **inhibition** by antioxidants of nitric oxide synthase gene expression in macrophages stimulated with lipopolysaccharide and interferon- γ)

RN 480-40-0 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

```
=> d que nos 133; s 133 not 130
L8
                 STR
           15296 SEA FILE=REGISTRY SSS FUL L8
L10
L17
                 STR
L20
                 STR
            1370 SEA FILE=REGISTRY SUB=L10 SSS FUL (L17 AND L20)
L22
            1643 SEA FILE=CAPLUS ABB=ON L22(L) (THU OR PAC OR PKT OR DMA OR
L26
                 BAC)/RL
                                                              compounds are well known. These are Neview articles discussing compounds for any therapeutic use
             103 SEA FILE=CAPLUS ABB=ON L22 AND REVIEW/DT
L32
              31 SEA FILE=CAPLUS ABB=ON L26 AND L32
L33
             31 L33 NOT (L30) previously printed
L34
 => d ibib ed abs hitstr 134 1-31; fil hom
L34 ANSWER 1 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN
                           2005:197774 CAPLUS
 ACCESSION NUMBER:
DOCUMENT NUMBER:
                           142:403184
                           The research progress of flavone and isoflavone on
TITLE:
                           inhibition oncogenic cell proliferation
AUTHOR(S):
                           Liu, Shu; Han, Jing; Wang, Luya
                           Institute of Basic Medical Sciences, Chinese Academy
CORPORATE SOURCE:
                           of Medical Sciences and Peking Union Medical College,
                           Beijing, 100005, Peop. Rep. China
                           Zhongguo Yaoxue Zazhi (Beijing, China) (2004), 39(1),
 SOURCE:
                           CODEN: ZYZAEU; ISSN: 1001-2494
 PUBLISHER:
                           Zhongguo Yaoxue Zazhishe
                           Journal; General Review
DOCUMENT TYPE:
                           Chinese
LANGUAGE:
      Entered STN: 07 Mar 2005
ED
      A review on the research progress of effects of flavone and isoflavone on
      inhibiting oncogenic cell proliferation, including inhibiting activity of
      tyrosine kinase, topoisomerase, cyclin depend kinase (CDK), and selective
      estrogen receptor mediator (SERM) function.
 IT
      525-82-6, Flavone 574-12-9, Isoflavone
      RL: PAC (Pharmacological activity); THU (Therapeutic
      use); BIOL (Biological study); USES (Uses)
         (the research progress of flavone and isoflavone on inhibition
         oncogenic cell proliferation)
RN
      525-82-6 CAPLUS
      4H-1-Benzopyran-4-one, 2-phenyl- (9CI) (CA INDEX NAME)
```

RN 574-12-9 CAPLUS CN 4H-1-Benzopyran-4-one, 3-phenyl- (9CI) (CA INDEX NAME)



L34 ANSWER 2 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:790845 CAPLUS

DOCUMENT NUMBER: 142:232111

TITLE: Current situation in pharmacological study on baicalin

AUTHOR(S): Zhang, Xiping; Tian, Hua; Cheng, Qihui

CORPORATE SOURCE: Department of General Surgery, the First People's

Hospital of Hangzhou, Hangzhou, 310006, Peop. Rep.

China

SOURCE: Zhongquo Yaolixue Tongbao (2003), 19(11), 1212-1215

CODEN: ZYTOE8; ISSN: 1001-1978

PUBLISHER: Anhui Yike Daxue Linchuan Yaoli Yanjiuso

DOCUMENT TYPE: Journal; General Review

LANGUAGE: Chinese ED Entered STN: 29 Sep 2004

AB A review with 32 refs. on current situation in pharmacol. study on

baicalin with subdivision headings: (1) Oxygen free radical-scavenging and

antioxidn. effects; (2) regulatory effect on immune function; (3) protective effect on ischemia- reperfusion injury; (4) effect on

apoptosis; (5) effects on arachidonic acid system; (6) inhibitory effect on microbe growth; clin. application; (8) other effects is presented.

IT 21967-41-9, Baicalin

RL: PAC (Pharmacological activity); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)

(pharmacol. study on baicalin)

RN 21967-41-9 CAPLUS

CN β -D-Glucopyranosiduronic acid, 5,6-dihydroxy-4-oxo-2-phenyl-4H-1-

benzopyran-7-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L34 ANSWER 3 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:714918 CAPLUS

DOCUMENT NUMBER: 142:189787

TITLE: Research on anti-endotoxin effects of Chinese medicine

chemical components

AUTHOR(S): Liu, Jin

CORPORATE SOURCE: Fujian Provincial Medicines Co., Fuzhou, 350001, Peop.

Rep. China

SOURCE:

Yiyao Daobao (2004), 23(7), 486-488

CODEN: YDIAAL; ISSN: 1004-0781

PUBLISHER: DOCUMENT TYPE: Yiyao Daobao Zazhishe Journal; General Review

LANGUAGE:

Chinese

ED

Entered STN: 02 Sep 2004

A review. Research on anti-endotoxin effects of Chinese medicine chemical AB

components is reviewed including gypenosides, ginkgolide B and A, ginsenoside, baicalin, anisodamine, and danshensu etc. as examples.

21967-41-9, Baicalin TT

RL: PAC (Pharmacological activity); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)

(research on anti-endotoxin effects of Chinese medicine chemical components)

RN21967-41-9 CAPLUS

B-D-Glucopyranosiduronic acid, 5,6-dihydroxy-4-oxo-2-phenyl-4H-1-CN

benzopyran-7-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L34 ANSWER 4 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2004:714893 CAPLUS

DOCUMENT NUMBER:

142:189779

TITLE:

Research Advances in antiviral Chinese medicine

AUTHOR(S): CORPORATE SOURCE: Liu, Fu-qiang; Wang, Wei-dong; Tang, Zhen Dep. of Pharmacy, The 208th Hospital of PLA,

Changchun, Jilin, 130062, Peop. Rep. China

SOURCE:

Yiyao Daobao (2004), 23(8), 536-538

CODEN: YDIAAL; ISSN: 1004-0781

PUBLISHER:

Yiyao Daobao Zazhishe

DOCUMENT TYPE:

Journal; General Review

LANGUAGE:

Chinese

ED

Entered STN: 02 Sep 2004

A review. Research Advances in antiviral Chinese medicine is reviewed AB including the antiviral components isolated from Chinese medicines such as baicalein and kurarinone etc., antiviral Chinese medicine and its extract such as Scutellaria baicalensis and Forsythia suspensa etc., and antiviral Chinese patent medicine and its extract with examples.

491-67-8, Baicalein

RL: PAC (Pharmacological activity); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)

(research Advances in antiviral Chinese medicine)

491-67-8 CAPLUS RN

4H-1-Benzopyran-4-one, 5,6,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME) CN

L34 ANSWER 5 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

CORPORATE SOURCE:

2004:678878 CAPLUS

DOCUMENT NUMBER:

141:150387

TITLE:

Recent developments of apoptosis inducer

AUTHOR(S):

Sha, Lei; Zhao, Bao-Xiang; Tan, Wei; Miao, Jun-Ying Sch. Chem. Chem. Eng., Shandong Univ., Jinan, 250100,

Peop. Rep. China

SOURCE:

Youji Huaxue (2004), 24(8), 864-871

CODEN: YCHHDX; ISSN: 0253-2786

PUBLISHER:

Kexue Chubanshe

DOCUMENT TYPE:

Journal; General Review

LANGUAGE: Chinese

ED Entered STN: 20 Aug 2004

AB A review. The apoptosis inducers as anticancer reagents have attracted considerable attention, and now some of them have been used in clinic. They are the promising drugs toward, cancer treatment. This paper reviews the recent development of apoptosis inducer with an emphasis on their

structures and their structure-activity relationship.

IT **491-67-8**, Baicalein

RL: PAC (Pharmacological activity); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)
 (recent developments of apoptosis inducer)

RN 491-67-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,6,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

L34 ANSWER 6 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2004:537222 CAPLUS

DOCUMENT NUMBER:

142:175885

TITLE:

Periodontal diseases and systemic bone

density-supplementation of calcium and soybean

isoflavone

AUTHOR (S):

Takemura, Akane

CORPORATE SOURCE:

Preduct Development Dep., Sunstar Inc., Takatsuki,

Osaka, 569-1195, Japan

SOURCE:

Saibo (2004), 36(6), 241-243

CODEN: SAIBC7; ISSN: 1346-7557

PUBLISHER:

Nyu Saiensusha

DOCUMENT TYPE:

Journal; General Review

LANGUAGE:

Japanese

ED Entered STN: 06 Jul 2004

AB A review discussing the effect of calcium and soybean isoflavone supplementation on periodontal disease based on clin. study with postmenopausal females is provided.

IT **574-12-9**, Isoflavone

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (effect of calcium and soybean isoflavone supplementation on periodontal diseases and systemic bone d.)

RN 574-12-9 CAPLUS

CN 4H-1-Benzopyran-4-one, 3-phenyl- (9CI) (CA INDEX NAME)

L34 ANSWER 7 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:276947 CAPLUS

DOCUMENT NUMBER: 141:98776

TITLE: Progress in the therapy of liver fibrosis targeting to

hepatic stellate cells

AUTHOR(S): Zhang, Xufu; Lu, Zhiping; Liu, Xiaoyan

CORPORATE SOURCE: Traditional Chinese Medicine Department, The First

Military Medical University, Guangzhou, 510515, Peop.

Rep. China

SOURCE: Zhongguo Yaolixue Tongbao (2003), 19(6), 622-626

CODEN: ZYTOE8; ISSN: 1001-1978

PUBLISHER: Anhui Yike Daxue Linchuan Yaoli Yanjiuso

DOCUMENT TYPE: Journal; General Review

LANGUAGE: Chinese ED Entered STN: 05 Apr 2004

AB A review with 38 refs. on progress in the therapy of liver fibrosis targeting to hepatic stellate cells with subdivision headings: (1) inhibiting the activation and proliferation of hepatic stellate cells; (2) regulating the synthesis and degradation of collagen; (3) hepatic stellate cells-targeting therapy of liver fibrosis; (4) conclusion and expectation.

IT 38640-70-9, Penta-hydroxyflavone

RL: PAC (Pharmacological activity); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)

(progress in therapy of liver fibrosis targeting to hepatic stellate cells)

RN 38640-70-9 CAPLUS

CN 4H-1-Benzopyran-4-one, 2-phenyl-, pentahydroxy deriv. (9CI) (CA INDEX NAME)

5 (D1-OH)

L34 ANSWER 8 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:207591 CAPLUS

DOCUMENT NUMBER: 141:313057

TITLE: Isoflavone and saponin in soybeans

AUTHOR(S): Kudo, Shigemitsu; Yuki, Yumiko; Okubo, Kazuyoshi
CORPORATE SOURCE: Society of Food Science and Technology, Japan, Japan

SOURCE: Shokuhin Kogyo ni Okeru Kagaku Gijutsu no Shinpo

(2003), 10, 41-65

CODEN: SKOKBV

PUBLISHER: Korin

DOCUMENT TYPE: Journal; General Review

LANGUAGE: Japanese ED Entered STN: 16 Mar 2004

AB A review discussing soybean isoflavone chemical structures, isoflavone

concentration

in soybeans and processed food, metabolism in the human body, and physiol. activities, saponin in soybeans, and the concentration and metabolism thereof.

IT 574-12-9D, Isoflavone, derivs.

RL: FFD (Food or feed use); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(isoflavone and saponin in soybeans)

RN 574-12-9 CAPLUS

CN 4H-1-Benzopyran-4-one, 3-phenyl- (9CI) (CA INDEX NAME)

L34 ANSWER 9 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:179435 CAPLUS

DOCUMENT NUMBER: 141:270740

TITLE: Herbal Modulation of P-Glycoprotein

AUTHOR(S): Zhou, Shufeng; Lim, Lee Yong; Chowbay, Balram

CORPORATE SOURCE: Faculty of Science, Department of Pharmacy, National

University of Singapore, Singapore

SOURCE: Drug Metabolism Reviews (2004), 36(1), 57-104

CODEN: DMTRAR; ISSN: 0360-2532

PUBLISHER: Marcel Dekker, Inc.

DOCUMENT TYPE: Journal; General Review

LANGUAGE: . English

ED Entered STN: 05 Mar 2004

AΒ

A review. P-glycoprotein (Pgp) is a 170 kDa phosphorylated glycoprotein encoded by human MDR1 gene. It is responsible for the systemic disposition of numerous structurally and pharmacol. unrelated lipophilic and amphipathic drugs, carcinogens, toxins, and other xenobiotics in many organs, such as the intestine, liver, kidney, and brain. Like cytochrome P450s (CYP3A4), Pgp is vulnerable to inhibition, activation, or induction by herbal constituents. This was demonstrated by using an ATPase assay, purified Pgp protein or intact Pgp-expressing cells, and proper probe substrates and inhibitors. Curcumin, ginsenosides, piperine, some catechins from green tea, and silymarin from milk thistle were found to be inhibitors of Pgp, while some catechins from green tea increased Pqp-mediated drug transport by heterotropic allosteric mechanism, and St. John's wort induced the intestinal expression of Pgp in vitro and in vivo. Some components (e.g., bergamottin and quercetin) from grapefruit juice were reported to modulate Pgp activity. Many of these herbal constituents, in particular flavonoids, were reported to modulate Pgp by directly interacting with the vicinal ATP-binding site, the steroid-binding site, or the substrate-binding site. Some herbal constituents (e.g., hyperforin and kava) were shown to activate pregnane X receptor, an orphan nuclear receptor acting as a key regulator of MDR1 and many other genes. The inhibition of Pgp by herbal constituents may provide a novel approach for reversing multidrug resistance in tumor cells, whereas the stimulation of Pgp expression or activity has implication for chemoprotective enhancement by herbal medicines. natural flavonols (e.g., kaempferol, quercetin, and galangin) are potent stimulators of the Pqp-mediated efflux of 7,12-dimethylbenz(a)-anthracene (a carcinogen). The modulation of Pgp activity and expression by these herb constituents may result in altered absorption and bioavailability of drugs that are Pgp substrates. This is exemplified by increased oral bioavailability of phenytoin and rifampin by piperine and decreased bicavailability of indinavir, tacrolimus, cyclosporine, digoxin, and fexofenadine by coadministered St. John's wort. However, many of these drugs are also substrates of CYP3A4. Thus, the modulation of intestinal Pgp and CYP3A4 represents an important mechanism for many clin. important herb-drug interactions. Further studies are needed to explore the relative role of Pgp and CYP3A4 modulation by herbs and the mechanism for the interplay of these two important proteins in herb-drug interactions. **548-83-4**, Galangin

RL: PAC (Pharmacological activity); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)
 (natural flavonol galangin is potent stimulator of Pgp-mediated efflux
 of carcinogen 7,12-dimethylbenz(a)-anthracene)

RN 548-83-4 CAPLUS

IT

CN 4H-1-Benzopyran-4-one, 3,5,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

IT **577-85-5**, Flavonol

RL: PAC (Pharmacological activity); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)

(natural flavonols kaempferol, quercetin and galangin are potent stimulators of Pgp-mediated efflux of carcinogen 7,12-dimethylbenz(a)-

anthracene)

RN 577-85-5 CAPLUS

CN 4H-1-Benzopyran-4-one, 3-hydroxy-2-phenyl- (9CI) (CA INDEX NAME)

OH OH

REFERENCE COUNT: 336 THERE ARE 336 CITED REFERENCES AVAILABLE FOR

THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

L34 ANSWER 10 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:81079 CAPLUS

DOCUMENT NUMBER: 141:218071

TITLE: Phytoestrogens. The role of isoflavones

AUTHOR(S): Dragomirescu, Anca; Antal, Diana; Dehelean, Cristina CORPORATE SOURCE: Fac. de Farm. Timisoara, UMFT, Timisoara, 1900, Rom.

SOURCE: Farmacia (Bucharest, Romania) (2003), 51(6), 15-24

CODEN: FRMBAZ; ISSN: 0014-8237

PUBLISHER: Societatea de Stiinte Farmaceutice din Romania

DOCUMENT TYPE: Journal; General Review

LANGUAGE: Romanian

ED Entered STN: 02 Feb 2004

AB A review with refs. Phytoestrogens are substances of vegetable origin: isoflavones, lignans, sterols synthesized by plants acting as fungicides

or hormone regulators and which action is estrogen-like action.

IT **574-12-9**, Isoflavone

RL: NPO (Natural product occurrence); PAC (Pharmacological

activity); THU (Therapeutic use); BIOL (Biological study);

OCCU (Occurrence); USES (Uses)

(phytoestrogens)

RN 574-12-9 CAPLUS

CN 4H-1-Benzopyran-4-one, 3-phenyl- (9CI) (CA INDEX NAME)

Ph

L34 ANSWER 11 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:62124 CAPLUS

DOCUMENT NUMBER: 141:154

TITLE: Relation between structure and antioxidant activity of

flavonoid

AUTHOR(S): Chen, Qi; Wang, Bo-chu; Tang, Chun-hong; Duan,

Chuan-ren

CORPORATE SOURCE: Key Laboratory for Biomechanics & Tissue Engineering

under State Ministry of Education, College of Bioengineering, Chongqing University, Chongqing, 400044, Peop. Rep. China

SOURCE:

Chongqing Daxue Xuebao, Ziran Kexueban (2003), 26(11),

48-51, 55

CODEN: CDXZF2; ISSN: 1000-582X Chongqing Daxue Xuebao Bianjibu

DOCUMENT TYPE:

Journal; General Review

Chinese

LANGUAGE:

ED

PUBLISHER:

Entered STN: 26 Jan 2004

A review. A great many plants contain the monomer of flavonoids. AB components have more than one hydroxy radical (R · OH), and provided with antioxidant effect of hydrogen radical (H \cdot), can scavenge the superoxide anions (O2.-), hydroxy free radical (OH ·) and other free radical activity. The relation between structure and antioxygenic activity of flavonoid is consanguineous. The structure-antioxidn. relationship of typical flavonoid antioxidants is described from three aspects. The amount of phenol hydroxyl, the locations of phenol hydroxyl and the different, substitute of phenol hydroxyl, it has been anticipated that some new flavonoid drugs with high efficacy and strong specificity will be discovered and developed and applied.

525-82-6, Flavone TТ

> RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(relation between structure and antioxidant activity of flavonoid)

525-82-6 CAPLUS RN

4H-1-Benzopyran-4-one, 2-phenyl- (9CI) (CA INDEX NAME) CN

L34 ANSWER 12 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN-

ACCESSION NUMBER:

2003:1011914 CAPLUS

DOCUMENT NUMBER:

141:93

TITLE:

Advances in modulation of cytochrome P-450 by Chinese

herbal medicine

AUTHOR(S):

Wang, Yuguang; Gao, Yue

CORPORATE SOURCE:

Institute of Radiation Medicine, Academy of Military Medical Sciences, Beijing, 100850, Peop. Rep. China

Zhongcaoyao (2003), 34(5), 477-478, s1 SOURCE:

CODEN: CTYAD8; ISSN: 0253-2670

PUBLISHER:

Zhongcaoyao Zazhi Bianjibu

DOCUMENT TYPE:

Journal; General Review

LANGUAGE:

Chinese

EDEntered STN: 30 Dec 2003

A review with 19 refs. on advances in modulation of cytochrome P 450 by AB Chinese herbal medicine with subdivision headings: (1) study on the regulatory effects of various kinds of compds. in Chinese medicine on the activity of cytochrome P 450; (2) study on the regulatory effects of Chinese medicine on the activity of cytochrome P 450; (3) study on the regulatory effects of Chinese patent medicine on the activity of cytochrome P 450; (4) methods for studying the regulatory effects of Chinese medicine; and (5) conclusion.

21967-41-9, Baicalin

RL: PAC (Pharmacological activity); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)

(advances in modulation of cytochrome P 450 by Chinese herbal medicine)

RN 21967-41-9 CAPLUS

CN β-D-Glucopyranosiduronic acid, 5,6-dihydroxy-4-oxo-2-phenyl-4H-1-

benzopyran-7-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.

HO S S S O HO OH O

L34 ANSWER 13 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:932226 CAPLUS

DOCUMENT NUMBER: 140:298665

TITLE: Anti-dipsotropic isoflavones: the potential

therapeutic agents for alcohol dependence

AUTHOR(S): Keung, Wing Ming

CORPORATE SOURCE: Department of Psychiatry, Massachusetts Mental Health

Center, and Center for Biochemical and Biophysical

Sciences and Medicine, Harvard Medical School,

Cambridge, MA, 02139, USA

SOURCE: Medicinal Research Reviews (2003), 23(6), 669-696

CODEN: MRREDD; ISSN: 0198-6325

PUBLISHER: John Wiley & Sons, Inc. DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

Entered STN: 30 Nov 2003 ED AΒ A review on the anti-dipsotropic isoflavones: the potential therapeutic agents for alc. dependence. Daidzin is the active principle of Radix puerariae (RP), an herbal remedy that has been used apparently safely and effectively for the treatment of "alc. addiction" in China for more than a millennium. It has been shown to reduce alc. consumption in all animal models tested to date. A link between daidzin's capacity to reduce alc. consumption and its ability to increase liver mitochondrial monoamine oxidase (MAO): aldehyde dehydrogenase (ALDH-2) activity ratio has been established. Daidzin analogs that potently inhibit ALDH-2 but not MAO are the most antidipsotropic, whereas those that also inhibit MAO are not. On the basis of these findings, it was proposed that the liver mitochondrial MAO-ALDH-2 pathway is the primary site of action of daidzin and that a biogenic aldehyde derived from the action of MAO mediates its anti-dipsotropic action. Therefore, to design and synthesize more potent anti-dipsotropic analogs, structural features that would enhance ALDH-2 inhibition and/or decrease MAO inhibition needed to be evaluated. Structure-activity-relationship (SAR) studies have revealed that a sufficient set of criteria for a potent anti-dipsotropic analog is an isoflavone with a free 4'-OH function and a straight-chain alkyl at the 7 position that has a terminal polar function such as -OH, -COOH, or -NH2. The preferable chain lengths for the 7-0-o-carboxy, 7-0-o-hydroxy, and 7-0-o-amino substituents are $5 \le n \le 10$, $2 \le n$ \leq 6, and n \geq 4, resp. Analogs that meet these criteria have

increased potency for ALDH-2 inhibition and/or decreased potency for MAO inhibition and are, therefore, likely to be potent anti-dipsotropic agents.

574-12-9, Isoflavone ΤТ

> RL: BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(anti-dipsotropic isoflavones and potential therapeutic agents for alc. dependence)

574-12-9 CAPLUS RN

4H-1-Benzopyran-4-one, 3-phenyl- (9CI) (CA INDEX NAME) CN

REFERENCE COUNT: 88 THERE ARE 88 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 14 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

2003:724209 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 140:300380

Advances in studies on chemical constituents and TITLE:

physiological activity of Goniothalamus (Bl.) Hook. f.

et Thoms.

Wang, Qizhi; He, Mingfang; Liang, Jingyu AUTHOR(S):

Department of Phytochemistry, China Pharmaceutical CORPORATE SOURCE:

University, Nanjing, 210009, Peop. Rep. China

Zhongcaoyao (2003), 31(3), 277-280 SOURCE:

CODEN: CTYAD8; ISSN: 0253-2670

Zhongcaoyao Zazhi Bianjibu PUBLISHER:

DOCUMENT TYPE: Journal; General Review

LANGUAGE: Chinese

Entered STN: 16 Sep 2003 ED

A review of advances in studies on the chemical constituents and physiol.

activity of Goniothalamus.

480-39-7, Pinocembrin IT

RL: BSU (Biological study, unclassified); PAC (Pharmacological

activity); THU (Therapeutic use); BIOL (Biological study);

USES (Uses)

(chemical constituents and antitumor activity of Goniothalamus)

RN480-39-7 CAPLUS

4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-2-phenyl-, (2S)- (9CI) CN

(CA INDEX NAME)

Absolute stereochemistry.

L34 ANSWER 15 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2003:674346 CAPLUS

DOCUMENT NUMBER: 140:305682

TITLE: Progress on synthesis of 7-hydroxyisoflavone for

antiosteoporosis pharmaceuticals

AUTHOR(S): Fu, Chun; Shen, Zhangping; Xiao, Guomin

CORPORATE SOURCE: Nanjing Chemical Plant, China Petrochemical Corp.,

Nanjing, Peop. Rep. China

SOURCE: Jingxi Yu Zhuanyong Huaxuepin (2003), 11(15), 12-16

CODEN: JYZHA7; ISSN: 1008-1100

PUBLISHER: Jingxi Yu Zhuanyong Huaxuepin Bianjibu

DOCUMENT TYPE: Journal; General Review

LANGUAGE: Chinese ED Entered STN: 29 Aug 2003

AB A review covering synthetic methods and development progress of 7-hydroxyisoflavone, a key intermediate for the manufacture of newly developed antiosteoporosis drugs. The advantages and disadvantages of the synthetic methods are discussed and it is pointed out that cyclocondensation of tri-Et orthoformate with 2,4-dihydroxyphenyl benzyl ketone prepared from resorcinol and PhCH2CO2H is an appropriate technol. for com. production of 7-hydroxyisoflavone.

IT 13057-72-2P, 7-Hydroxyisoflavone

RL: IMF (Industrial manufacture); THU (Therapeutic use); BIOL

(Biological study); PREP (Preparation); USES (Uses)

(progress on synthesis of hydroxyisoflavone for antiosteoporosis pharmaceuticals)

RN 13057-72-2 CAPLUS

CN 4H-1-Benzopyran-4-one, 7-hydroxy-3-phenyl- (9CI) (CA INDEX NAME)

PUBLISHER:

L34 ANSWER 16 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:519783 CAPLUS

DOCUMENT NUMBER: 138:82738

TITLE: GABAA-receptor ligands of flavonoid structure

AUTHOR(S): Marder, Mariel; Paladini, Alejandro C.

CORPORATE SOURCE: Instituto de Quimica y Fisicoquimica Biologicas,

Facultad de Farmacia y Bioquimica, Buenos Aires, 1113,

Argent.

SOURCE: Current Topics in Medicinal Chemistry (Hilversum,

Netherlands) (2002), 2(8), 853-867

CODEN: CTMCCL; ISSN: 1568-0266 Bentham Science Publishers Ltd.

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

ED Entered STN: 12 Jul 2002

AB A review describes the new research developments that have established the CNS-activity of some natural flavonoids. The properties of flavone, chrysin, apigenin and cirsiliol are described and a survey of the occurrence of ligands for the benzodiazepine binding site in the flavonoid field is attempted. Natural compds., structurally related to flavonoids

and with similar CNS-activities, are also included. A medicinal chemical approach to improve the biochem. and pharmacol. properties of the flavone nucleus is described alongside with the enumeration of the principal achievements obtained to date. Quant. structure-activity relationships studies leading to the formulation of pharmacophore models presumably describing the characteristics of the flavone-binding site in the GABAA-receptor are summarized.

IT 480-40-0, Chrysin

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(GABAA-receptor ligands of flavonoid structure)

RN 480-40-0 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 87 THERE ARE 87 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 17 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:175181 CAPLUS

DOCUMENT NUMBER: 136:334614

TITLE: Effects of Saiboku-to (Chai-Pu-Tang) components, which

are absorbed into the body following the

administration, on the release of leukotrienes Honma, Masaco, Oka, Kitaro, Niitsuma, Tomoyuki;

Hayashi, Toru

CORPORATE SOURCE: Department of Pharmaceutical Science, Institute of

Clinical Medicine, University of Tsukuba, Ibaraki,

Japan

SOURCE: Kanpo to Men'eki, Arerugi (2001), 15, 38-46

CODEN: KMARED; ISSN: 0914-6407

PUBLISHER: Fama Intanashonaru

DOCUMENT TYPE: Journal; General Review

LANGUAGE: Japanese

ED Entered STN: 12 Mar 2002

AB A review. To investigate the anti-allergic activities of the components, which are absorbed into the body when Saiboku-to (Chai-Pu-Tang) is administered, we studied the inhibitory effects on the release of leukotrienes (LTs) from human polymorphonuclear leukocytes (PMLs). The inhibitory effects for each compound were evaluated by a concentration (IC50)

that

AUTHOR(S):

suppresses 50% the release of LTB4 and LTC4 from PMLs stimulated by calcium ionophores. The inhibition activities for davidigenin, medicarpin, and dihydroxydihydromagnolol were equal to that for the pos. control azelastine hydrochloride. Baicalein and magnolol demonstrated stronger activity compared with azelastine hydrochloride. Liquiritigenin did not inhibit the LT-release but davidigenin, a bacterial metabolite of liquiritigenin in the intestine, did. This observation lead to the assumption that liquiritigenin plays a part in inhibiting release of LTs through metabolic conversion to active davidigenin in the intestinal bacterial flora. Active compds. took from 1 to 3, from 6 to 9, or 12 h to reach maximum concentration in the blood after single dose of Saiboku-to. The

compds. related to inhibition of LT release changed time-dependently after administration of Saiboku-to. LT-release inhibition by baicalein and magnolol was stronger in the PMLs of bronchial-asthmatics than in those of healthy subjects.

IT **491-67-8**, Baicalein

RL: PAC (Pharmacological activity); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)

(effects of Saiboku-to (Chai-Pu-Tang) components, which are absorbed into the body following the administration, on the release of leukotrienes)

RN 491-67-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,6,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

L34 ANSWER 18 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:175180 CAPLUS

DOCUMENT NUMBER: 136:334613

TITLE: Inhibition effects of oriental medicine on production

of macrophage-derived chemokines (MDC)

AUTHOR(S): Hirai, Koichi; Nakajima, Toshiharu; Cyong, Jong-Chol

CORPORATE SOURCE: Department of Bioregulatory Function, University of

Tokyo Graduate School of Medicine, Tokyo, Japan

SOURCE: Kanpo to Men'eki, Arerugi (2001), 15, 28-37

CODEN: KMARED; ISSN: 0914-6407

PUBLISHER: Fama Intanashonaru

DOCUMENT TYPE: Journal; General Review

LANGUAGE: Japanese ED Entered STN: 12 Mar 2002

AB A review. The Th2-specific chemokine MDC is thought to be a target mol. for the treatment of bronchial asthma, which is Th2 dominant. Administration of Saiboku-to (Chai-Po-Tang) and Oren-gedoku-to (Huang-Lian-Jie-Du-Tang [500 µg/mL]) inhibited dominant production of MDC from human peripheral-blood mononuclear cell under IL-4 stimulation. Administration of 500 µg/mL of Oren (Huang-Qin) a component of Saiboku-to alone significantly inhibited MDC production Among the components of Ogon, baicalein and wogonin significantly inhibited MDC production Wogonin too was shown to have an inhibiting effect. PCR investigations showed that addition of 5 µg/mL of baicalein and 50 µg/mL of wogonin inhibited MDC mRNA expression. In addition, Oren and Obaku, both components of Oren-gedoku-to, inhibited MDC production Their principal component berberine also suppressed MDC generation.

IT 491-67-8, Baicalein 632-85-9, Wogonin

RL: PAC (Pharmacological activity); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)

(inhibition effects of oriental medicine on production of macrophage-derived chemokines)

RN 491-67-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,6,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 632-85-9 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,7-dihydroxy-8-methoxy-2-phenyl- (9CI) (CA INDEX NAME)

L34 ANSWER 19 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:96964 CAPLUS

DOCUMENT NUMBER: 137:194759

TITLE: Review in pharmacological study of baicalein

AUTHOR(S): Zhang, Xiping; Li, Zongfang; Liu, Xiaogong

CORPORATE SOURCE: Second Hospital, Xi'an Jiaotong University, Xi'an,

710004, Peop. Rep. China

SOURCE: Zhongguo Yaolixuc Tongbao (2001), 17(6), 711-713

CODEN: ZYTOE8; ISSN: 1001-1978

PUBLISHER: Anhui Yike Daxue Linchuan Yaoli Yanjiuso

DOCUMENT TYPE: Journal; General Review

LANGUAGE: Chinese ED Entered STN: 06 Feb 2002

ED Entered STN: 06 Feb 2002

AB A review with 17 refs. on pharmacol. of baicalein with subdivision headings: (1) antibacterial and antiviral effects; (2) anti-inflammatory

effect; (3) protective effect on liver and diuretic effect; (4) antioxidant and free radical scavenging effects; (5) anticoagulative and antithrombotic effects; (6) inhibitory effect of pancreatic enzyme activity; (7) effects on biol. membranes; (8) antitumor effects; (9) regulatory effects on smooth muscle; (10) antihypertensive effect;

inhibitory effect on adhesion mol. expression and (12) summary.

IT 491-67-8, Baicalein

RL: PAC (Pharmacological activity); THU (Therapeutic

use); BIOL (Biological study); USES (Uses)

(pharmacol. of baicalein)

RN 491-67-8 CAPLUS

CN 4H-1-Benzopyran-4-one, 5,6,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

L34 ANSWER 20 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:333455 CAPLUS

DOCUMENT NUMBER: 135:131613

DOCUMENT NUMBER: 135:1316.

TITLE: Anti-genotoxicity of galangin as a cancer

chemopreventive agent candidate

AUTHOR(S): Heo, M. Y.; Sohn, S. J.; Au, W. W.

CORPORATE SOURCE: College of Pharmacy, Kangwon National University,

Chunchon, 200, S. Korea

SOURCE: Mutation Research (2001), 488(2), 135-150

CODEN: MUREAV; ISSN: 0027-5107

PUBLISHER: Elsevier Science B.V. DOCUMENT TYPE: Journal; General Review

LANGUAGE: English ED Entered STN: 10 May 2001

AB A review with 132 refs. Flavonoids are polyphenolic compds. that are present in plants. They have been shown to possess a variety of biol. activities at non-toxic concns. in organisms. Galangin, a member of the flavonol class of flavonoid, is present in high concns. in medicinal plants (e.g. Alpinia officinarum) and propolis, a natural beehive product. Results from in vitro and in vivo studies indicate that galangin with anti-oxidative and free radical scavenging activities is capable of modulating enzyme activities and suppressing the genotoxicity of chems. These activities will be discussed in this review. Based on our review, galangin may be a promising candidate for cancer chemoprevention.

IT **548-83-4**, Galangin

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(anti-genotoxicity of galangin as a cancer chemopreventive agent candidate)

RN 548-83-4 CAPLUS

CN 4H-1-Benzopyran-4-one, 3,5,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

132 THERE ARE 132 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 21 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:6771 CAPLUS

DOCUMENT NUMBER: 135:101688

TITLE: Pharmacological effects of baicalin

AUTHOR(S):

Cui, Lan; Yuan, Jing; Wang, Pingquan

CORPORATE SOURCE:

Department of Clinical Pharmacy and Pharmacology,

Renji Hospital, Shanghai, Shanghai, 200001, Peop. Rep.

China

SOURCE:

Zhongguo Yiyuan Yaoxue Zazhi (2000), 20(11), 685-686

CODEN: ZYYAEP; ISSN: 1001-5213

PUBLISHER:

Zhongguo Yiyuan Yaoxue Zazhi Bianjibu

DOCUMENT TYPE:

Journal; General Review

LANGUAGE:

Chinese

ED Entered STN: 04 Jan 2001

AB

A review, with 18 refs., on the pharmacol. of baicalin: effect on Ca2+; scavenging of free radicals; inhibition of aldose reductase and use in treating chronic complications of diabetes; effect on psoriasis; anti-HIV-1 activity; antitumor effects; effects on cataracts; sunscreening activity.

TT **21967-41-9**, Baicalin

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (pharmacol. of baicalin)

21967-41-9 CAPLUS RN

β-D-Glucopyranosiduronic acid, 5,6-dihydroxy-4-oxo-2-phenyl-4H-1-CN benzopyran-7-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L34 ANSWER 22 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

2000:844208 CAPLUS

DOCUMENT NUMBER:

134:4292

TITLE: AUTHOR (S): Application of isoflavone for beauty Kojima, Hiroyuki, Kawai, Norihisa

CORPORATE SOURCE:

Res. Dev. Dep., Ichimaru Pharcos Co. Ltd., Gifu,

501-0475, Japan

SOURCE:

Fragrance Journal (2000), 28(11), 111-115

CODEN: FUJAD7; ISSN: 0288-9803

PUBLISHER: DOCUMENT TYPE: Fureguransu Janaru Sha

Journal; General Review

LANGUAGE:

Japanese

Entered STN: 05 Dec 2000

AB A review with 15 refs. on biosynthesis and structure of isoflavonoids which are contained in plant, especially in soybean. Physiol. activities of isoflavonoids such as female sex hormone-like activity, antimicrobial activity, etc., are also discussed.

IT **574-12-9**, Isoflavone

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); FFD (Food or feed use); BIOL (Biological study); USES (Uses)

RN 574-12-9 CAPLUS

CN 4H-1-Benzopyran-4-one, 3-phenyl- (9CI) (CA INDEX NAME)

Ph

L34 ANSWER 23 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:436176 CAPLUS

DOCUMENT NUMBER: 129:67146

TITLE: Flavonols, flavones, and anthocyanins as native

antioxidants of food and their possible role in the

prevention of chronic diseases

AUTHOR(S): Boehm, H.; Boeing, H.; Hempel, J.; Raab, B.; Kroke, A.

CORPORATE SOURCE: Deutsches Institut Ernaehrungsforschung,

Bergholz-Rehbruecke, D-14558, Germany

SOURCE: Zeitschrift fuer Ernaehrungswissenschaft (1998),

37(2), 147-163

CODEN: ZERNAL; ISSN: 0044-264X

PUBLISHER: Dr. Dietrich Steinkopff Verlag GmbH & Co. KG

DOCUMENT TYPE: Journal; General Review

LANGUAGE: German
ED Entered STN: 15 Jul 1998

A review with many refs. on the current knowledge on the occurrence, AB intake, bioavailability, and antioxidative properties of flavonols, flavones, and anthocyanins as well as the assocns. between flavonol intake and disease risks. Flavonoids are non-nutritive compds. of plants with a considerable antioxidative activity, mainly based on scavenging of O radicals, and possible protective effects against chronic diseases. Flavonols and anthocyanins are commonly found in European fruits and vegetables. Black tea and red wine may have a high content of these compds. The mean intake of flavonols of the German population was calculated using data from the National German Food Consumption Survey. According to this anal., the daily, per capita intake was .apprx.11.5 mg flavonols, mainly derived from fruits and vegetables, but also from black tea and red wine. An inverse association between flavonol intake and mortality from myocardial infarction was observed by epidemiol. studies. The flavonoid intake can be inversely correlated with cancer risk. Possible health related effects especially of flavonols are critically reflected, and the necessity of further research is outlined.

IT **577-85-5**, Flavonol

RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); FFD (Food or feed use); BIOL (Biological study); OCCU (Occurrence); USES (Uses) (flavonols, flavones, and anthocyanins as native antioxidants of food and their role in prevention of chronic diseases)

RN 577-85-5 CAPLUS

CN 4H-1-Benzopyran-4-one, 3-hydroxy-2-phenyl- (9CI) (CA INDEX NAME)

IT 525-82-6, Flavone

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); FFD (Food or feed use); BIOL (Biological study); USES (Uses)

(flavonols, flavones, and anthocyanins as native antioxidants of food and their role in prevention of chronic diseases)

RN 525-82-6 CAPLUS

CN 4H-1-Benzopyran-4-one, 2-phenyl- (9CI) (CA INDEX NAME)

L34 ANSWER 24 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:377444 CAPLUS

DOCUMENT NUMBER: 129:135489

TITLE: Health effects of non-nutrient factors in soy bean

AUTHOR(S): Watanabe, Shaw

CORPORATE SOURCE: Fac. Appl. Biol., Tokyo Agric. Univ., Japan

SOURCE: Food Style 21 (1998), 2(6), 29-32

CODEN: FSTYFF

PUBLISHER: Shokuhin Kagaku Shinbunsha DOCUMENT TYPE: Journal; General Review

LANGUAGE: Japanese

ED Entered STN: 20 Jun 1998

AB A review with 13 refs. on application of nonnutritive soybean isoflavones

on health.

T 574-12-9, Isoflavone
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); FFD (Food or feed use); THU (Therapeutic use); BIOL (Biological

study); OCCU (Occurrence); USES (Uses)
 (health effects of non-nutrient factors in soy bean)

RN 574-12-9 CAPLUS

CN 4H-1-Benzopyran-4-one, 3-phenyl- (9CI) (CA INDEX NAME)

L34 ANSWER 25 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1998:332080 CAPLUS

DOCUMENT NUMBER: 129:94548

Cancer suppressing effects of soybean isoflavone TITLE:

> derivatives of food Tsuzaki, Shinichi

AUTHOR(S): Fuji Oil Co., Ltd., Japan CORPORATE SOURCE:

New Food Industry (1998), 40(4), 59-64 SOURCE:

CODEN: NYFIAM; ISSN: 0547-0277

Shokuhin Shizai Kenkyukai PUBLISHER: DOCUMENT TYPE: Journal; General Review

LANGUAGE: Japanese Entered STN: 04 Jun 1998 ED A review with 26 refs. AB

574-12-9D, Isoflavone, derivs. TΤ

RL: BAC (Biological activity or effector, except adverse); BSU

(Biological study, unclassified); FFD (Food or feed use); BIOL (Biological

study); USES (Uses)

(cancer suppressing effects of soybean isoflavone derivs. of food)

574-12-9 CAPLUS RN

4H-1-Benzopyran-4-one, 3-phenyl- (9CI) (CA INDEX NAME) CN

L34 ANSWER 26 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN .

1998:20738 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 128:135952

Anticancer properties of flavonoids, with emphasis on TITLE:

citrus flavonoids

Carroll, Kenneth K.; Guthrie, Najla; So, Felicia V.; AUTHOR (S):

Chambers, Ann F.

The University of Western Ontario, London, ON, Can. CORPORATE SOURCE:

Antioxidants in Health and Disease (1998), SOURCE:

7 (Flavonoids in Health and Disease), 437-446

CODEN: AHDIEQ

Marcel Dekker, Inc. PUBLISHER: Journal; General Review DOCUMENT TYPE:

LANGUAGE: English Entered STN: 15 Jan 1998 ED

A review, with 19 refs. Orange juice given to rats in place of drinking AB water appeared to delay the development of mammary tumors induced by DMBA. The rats given orange juice grew better than controls, indicating that the inhibition of tumorigenesis was not simply an effect of general growth inhibition. Flavonoids, including those present in citrus juices, were shown to inhibit proliferation of both estrogen receptor-neg. and -pos. human breast cancer cells in culture. The most effective compds. tested were nobiletin and tangeretin from tangerines. With the exception of genistein, the flavonoids used in these expts. do not appear to be acting as antiastrogens. Their ability to inhibit protein kinase C suggests that they interfere with signal transduction pathways in these human breast cancer cells. The flavonoids were found to act synergistically with tocotrienols (a form of vitamin E) and with tamoxifen in the inhibition of both the estrogen receptor-neg. and -pos. cancer cells. This may be because they are inhibiting proliferation of the cells by different mechanisms. Eating a mixture of foods containing these different compds. may thus help to prevent cancer and may potentiate the action of established anticancer agents such as tamoxifen.

IT **491-67-8**, Baicalein **548-83-4**, Galangin

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(anticancer properties of flavonoids, with emphasis on citrus flavonoids)

491-67-8 CAPLUS RN

4H-1-Benzopyran-4-one, 5,6,7-trihydroxy-2-phenyl- (9CI) CN

RN548-83-4 CAPLUS

CN 4H-1-Benzopyran-4-one, 3,5,7-trihydroxy-2-phenyl- (9CI)

REFERENCE COUNT:

19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2005 ACS on STN L34 ANSWER 27 OF 31

ACCESSION NUMBER:

1997:658938 CAPLUS

DOCUMENT NUMBER:

127:314297

TITLE:

Food, medicinal plants and active oxygen metabolism

AUTHOR (S):

Okuda, Hiromichi

CORPORATE SOURCE:

Department Biochemistry II, Ehime University School

Medicine, Japan

SOURCE:

Furi Rajikaru no Rinsho (1996), 10, 13-18

CODEN: FRRIFI

PUBLISHER:

Nihon Igakukan

DOCUMENT TYPE:

Journal; General Review

LANGUAGE:

Japanese

ED Entered STN: 17 Oct 1997

A review and discussion with 8 refs., mainly to the author's own research. AB Since ancient times, the roots of Scutellaria baicalensis have been used to treat allergic and inflammatory diseases in China and Japan. Baicalein isolated from this medicinal plant was found to inhibit 5- and 12-lipoxygenases. In addition, various coumarins, especially esculetin also inhibited these lipoxygenases. Recently, the author and coworkers isolated the novel compound Arg-Fru-Glc from Korean red ginseng. In the small intestine, Arg-Fru-Glc was metabolized to Arg-Fru which was then absorbed. It was clarified that the absorbed Arg-Fru caused dilatation of

blood vessels possibly through production of NO.

IT 491-67-8, Baicalein

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study)

(lipoxygenase inhibition by medicinal plant component)

RN 491-67-8' CAPLUS

CN 4H-1-Benzopyran-4-one, 5,6,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

L34 ANSWER 28 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:

1994:265711 CAPLUS

DOCUMENT NUMBER:

120:265711

TITLE:

The evaluation of antibacterial and antifungal

activities of dihydrotectochrysin and the volatile oil isolated from Kaempferia pandurata Roxb rhizomes using

agar diffusion and cross streak methods

AUTHOR(S): CORPORATE SOURCE: Widianto, Mathilda; Sukandar, Elin Yulinah Dep. Pharm., Bandung Inst. Technol., Bandung,

Indonesia

SOURCE:

Asahi Garasu Zaidan Josei Kenkyu Seika Hokoku (1993)

275-80

CODEN: AGSHEN; ISSN: 0919-9179

DOCUMENT TYPE:

Journal; General Review

LANGUAGE:

English

ED Entered STN: 28 May 1994

AB A review with 8 refs. Dihydrotectochrysin exhibited slight antimicrobial activity, whereas the volatile oil of K. pandurata showed a broad spectrum of activity against both bacteria and fungi. The volatile oil exhibits a MIC of 0.8% (1:131 dilution) against Bacillus subtilis and Pseudomonas pyogenes, and the activity of 10 µL of volatile oil was equivalent to 139.7 µg of chloramphenicol against B. subtilis and 783.97 µg of nystatin against Candida albicans.

IT 480-37-5, Dihydrotectochrysin

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study) (from Kaempferia pandurata, antimicrobial activity of)

RN 480-37-5 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5-hydroxy-7-methoxy-2-phenyl-, (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

L34 ANSWER 29 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1994:94486 CAPLUS

DOCUMENT NUMBER: 120:94486

TITLE: Antiviral agents from higher plants and example of

> structure-activity relationship of 3-methoxyflavones Vanden Berghe, Dirk A. R.; Haemers, Achiel; Vlietinck,

Arnold J.

Dep. Med., Univ. Antwerp, Antwerp, Belg. CORPORATE SOURCE:

Bioact. Nat. Prod. (1993), 405-40. Editor(s): SOURCE:

Colegate, Steven M.; Molyneux, Russell J. CRC: Boca

Raton, Fla. CODEN: 59QSAO

DOCUMENT TYPE: Conference; General Review

LANGUAGE: English Entered STN: 05 Mar 1994 ED

A review with 136 refs., with particular emphasis on 3-methoxyflavones. AΒ

IT 7245-02-5D, 3-Methoxyflavone, derivs.

RL: BAC (Biological activity or effector, except adverse); BSU

(Biological study, unclassified); BIOL (Biological study)

(virucides, from higher plants, structure-activity relations of)

7245-02-5 CAPLUS RN

4H-1-Benzopyran-4-one, 3-methoxy-2-phenyl- (9CI) (CA INDEX NAME) CN

AUTHOR (S):

CAPLUS COPYRIGHT 2005 ACS on STN L34 ANSWER 30 OF 31

1975:80163 CAPLUS ACCESSION NUMBER:

82:80163 DOCUMENT NUMBER:

Pharmacological actions of baicalin and baicalein from. TITLE:

Scutellariae radix

AUTHOR(S): Koda, Akihide

Gifu Coll. Pharm., Gifu, Japan CORPORATE SOURCE: Taisha (1973), 10(5), 730-9 SOURCE: CODEN: TSHAAW; ISSN: 0372-1566

DOCUMENT TYPE: Journal; General Review

LANGUAGE: Japanese

ED Entered STN: 12 May 1984

A review with 36 refs., showing that baicalin [21967-41-9] and AB baicalein [491-67-8], constituents of Scutellariae radix and analogous in structure to disodium cromoglycate, inhibit allergic reactions by preventing mediator release from mast cell, the compds. do not influence antibody formation, antigen-antibody interaction, or the complement system. The mechanism of prevention might be an inhibition of SH enzymes.

491-67-8 21967-41-9 TT

> RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(pharmacol. of)

491-67-8 CAPLUS RN

CN 4H-1-Benzopyran-4-one, 5,6,7-trihydroxy-2-phenyl- (9CI) (CA INDEX NAME)

RN 21967-41-9 CAPLUS

CN β-D-Glucopyranosiduronic acid, 5,6-dihydroxy-4-oxo-2-phenyl-4H-1benzopyran-7-yl (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L34 ANSWER 31 OF 31 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1968:77167 CAPLUS

DOCUMENT NUMBER: 68:77167

TITLE: Insecticidal activity of pyrones

AUTHOR(S): Anjaneyulu, A. S. R.; Row, L. Ramachandra

CORPORATE SOURCE: Andhra Univ., Waltair, India

SOURCE: Symp. Syn. Heterocycl. Compounds Physiol. Interest,

Hyderabad, India, 1964 (1966), Meeting Date 1964,

47-57

CODEN: 16VOA6

DOCUMENT TYPE: Conference LANGUAGE: English

ED Entered STN: 12 May 1984

AB A review with 34 references. The toxicity of plant derived insecticides, such as rotenoids, coumarins, flavones, isoflavones, and pyrones, is tested against the freshwater fish, Haplochilus panchax. Flavones and isoflavones are inherently toxic to fish; a methyl or allyl ether group at C-7 and a veratroyl group in the side phenyl enhance their toxicity. The toxicity of rotenone is apparently attributable to its γ -pyranone structure and its steric configuration.

IT 525-82-6D, Flavone, derivs. 574-12-9D, Isoflavone, derivs.

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); BIOL (Biological study); USES (Uses)

(insecticidal activity of, structure in relation to)

RN 525-82-6 CAPLUS

CN 4H-1-Benzopyran-4-one, 2-phenyl- (9CI) (CA INDEX NAME)

RN 574-12-9 CAPLUS CN 4H-1-Benzopyran-4-one, 3-phenyl- (9CI) (CA INDEX NAME)

FILE 'HOME' ENTERED AT 15:47:47 ON 14 JUL 2005

= >

This Page Blank (uspto)

=> d stat que 122; d his full L8 STR

VAR G1=H/OH/22 VAR G5=H/OH/22 VAR G7=H/OH/22/30 REP G10=(0-1) C VPA 16-8/9 U NODE ATTRIBUTES: CONNECT IS E1 RC AT 23 DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 34

STEREO ATTRIBUTES: NONE

L10 15296 SEA FILE=REGISTRY SSS FUL L8 L17 STR

Page 1-A

Page 2-A VAR G1=1/14/53/66/27/40 VAR G2=OH/79 VAR G3=H/OH/79 NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 79

STEREO ATTRIBUTES: NONE L20 STR

VAR G1=H/OH/22 VAR G4=H/35/36/40/39/43 VAR G5=H/OH/22 VAR G7=H/OH/22/30 REP G10=(0-1) C VPA 16-8/9 U NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM GGCAT IS MCY LOC UNS AT 46 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 47

STEREO ATTRIBUTES: NONE

L22 1370 SEA FILE=REGISTRY SUB=L10 SSS FUL (L17 AND L20)

100.0% PROCESSED 15296 ITERATIONS

1370 ANSWERS

SEARCH TIME: 00.00.01

(FILE 'HOME' ENTERED AT 14:42:21 ON 14 JUL 2005)

FILE 'REGISTRY' ENTERED AT 14:42:25 ON 14 JUL 2005

L1 STR

T₁4

L2 50 SEA SSS SAM L1

FILE 'STNGUIDE' ENTERED AT 14:44:15 ON 14 JUL 2005

FILE 'REGISTRY' ENTERED AT 14:45:08 ON 14 JUL 2005

L3 15416 SEA SSS FUL L1

SAVE TEMP L3 KHA306FULL/A

FILE 'CAPLUS' ENTERED AT 14:52:35 ON 14 JUL 2005

SET LINE 250

SET DETAIL OFF

E US2001-782306/AP, PRN 25

SET NOTICE 1000 SEARCH

1 SEA ABB=ON US2001-782306/AP

SET NOTICE LOGIN SEARCH

SET LINE LOGIN

SET DETAIL LOGIN

D SCAN

SEL RN

FILE 'REGISTRY' ENTERED AT 14:53:23 ON 14 JUL 2005

L5 17 SEA ABB=ON (14259-47-3/BI OR 329900-75-6/BI OR 481-53-8/BI OR

486-66-8/BI OR 487-26-3/BI OR 491-54-3/BI OR 491-67-8/BI OR

491-70-3/BI OR 491-80-5/BI OR 520-26-3/BI OR 520-27-4/BI OR

520-33-2/BI OR 525-82-6/BI OR 528-48-3/BI OR 529-44-2/BI OR

529-59-9/BI OR 577-85-5/BI)

D SCAN

L6 STR L1

L7 50 SEA SSS SAM L6

L8 STR L6

L9 50 SEA SSS SAM L8

L10 15296 SEA SSS FUL L8

SAVE TEMP L10 KHA306FULL/A

L11 STR

L12 50 SEA SUB=L10 SSS SAM L11

E FLAVONE/CN

FILE 'LREGISTRY' ENTERED AT 15:15:35 ON 14 JUL 2005

E FLAVONE/CN

L13 1 SEA ABB=ON FLAVONE/CN

```
D SCAN
                E 5-HYDROXY-FLAVONE/CN
                E FLAVONE, 5-HYDROXY/CN
L14
              1 SEA ABB=ON "FLAVONE, 5-HYDROXY-3',4',6,7-TETRAMETHOXY-"/CN
                D SCAN
     FILE 'REGISTRY' ENTERED AT 15:18:35 ON 14 JUL 2005
                D SCAN L5
                STR L8
L15
             50 SEA SUB=L10 SSS SAM (L11 AND L15)
L16
L17
                STR L11
                STR L15
L18
                D QUE L17
                D QUE L10
L19
                STR L8
                D OUE L18
L20
                STR L19
                D QUE L18
                D QUE L17
                D QUE L20
L21
             50 SEA SUB=L10 SSS SAM (L17 AND L20)
L22
           1370 SEA SUB=L10 SSS FUL (L17 AND L20)
                SAVE TEMP L22 KHA306SUB/A
     FILE 'CAPLUS' ENTERED AT 15:36:09 ON 14 JUL 2005
          8031 SEA ABB=ON L22
L23
                D SCAN L4
L24
          19296 SEA ABB=ON (NF/OBI OR NUCLEAR FACTOR/OBI) (W) K/OBI(W) B/OB
     FILE 'REGISTRY' ENTERED AT 15:38:16 ON 14 JUL 2005
                E CYCLOOXYGENASE-2/CN
L25
              1 SEA ABB=ON 329900-75-6
                D SCAN
     FILE 'REGISTRY' ENTERED AT 15:39:15 ON 14 JUL 2005
                D IDE
                E NFKB/CN
     FILE 'CAPLUS' ENTERED AT 15:40:21 ON 14 JUL 2005
           1643 SEA ABB=ON L22(L)(THU OR PAC OR PKT OR DMA OR BAC)/RL
L26
           9735 SEA ABB=ON L25 OR (CYCLOOXYGENASE/OBI OR CYCLO OXYGENASE/OBI
L27
                OR COX/OBI) (W) 2/OBI OR COX2/OBI
L28
             61 SEA ABB=ON (L24 OR L27) AND L22
             41 SEA ABB=ON (L24 OR L27)(L)(INHIB?/OBI OR BLOCK?/OBI OR
L29
                ANTAG?/OBI) AND L22
             36 SEA ABB=ON L29 AND L26
L30
              5 SEA ABB=ON L29 NOT L30
L31
                D SCAN
                E GEN/DT
                E REVIEW/DT
            103 SEA ABB=ON L22 AND REVIEW/DT
L32
L33
             31 SEA ABB=ON L26 AND L32
     FILE 'REGISTRY' ENTERED AT 15:45:48 ON 14 JUL 2005
                D STAT QUE L22
     FILE 'CAPLUS' ENTERED AT 15:45:48 ON 14 JUL 2005
                D QUE NOS L30
                D IBIB ED ABS HITSTR L30 1-36
```

L34

D QUE NOS L33
31 SEA ABB=ON L33 NOT L30
D IBIB ED ABS HITSTR L34 1-31

FILE 'HOME' ENTERED AT 15:47:47 ON 14 JUL 2005 D SAVED D STAT QUE L22

FILE HOME

FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 13 JUL 2005 HIGHEST RN 854992-86-2 DICTIONARY FILE UPDATES: 13 JUL 2005 HIGHEST RN 854992-86-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

* The CA roles and document type information have been removed from * the IDE default display format and the ED field has been added, * effective March 20, 2005. A new display format, IDERL, is now * available and contains the CA role and document type information. * *

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

FILE STNGUIDE
FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jul 8, 2005 (20050708/UP).

FILE CAPLUS

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications. The CA Lexicon is the copyrighted intellectual property of the American Chemical Society and is provided to assist you in searching databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 14 Jul 2005 VOL 143 ISS 3 FILE LAST UPDATED: 13 Jul 2005 (20050713/ED)

Page 6

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE LREGISTRY
LREGISTRY IS A STATIC LEARNING FILE

NEW CAS INFORMATION USE POLICIES, ENTER HELP USAGETERMS FOR DETAILS.

=>